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MISCELLANEOUS PUBLICATION No. 60
U. S. Department of Agriculture

Issued November 1929

Revised January 1934

LIST OF
AVAILABLE PUBLICATIONS
OF THE
UNITED STATES
DEPARTMENT OF AGRICULTURE

JANUARY 2, 1934

*Arranged Alphabetically
by Subjects*

Compiled by

F. L. ZIMMERMAN

Division of Publications
Office of Information

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UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1934

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¹ See also Diseases; Insects.

² See also Marketing.

LIST OF AVAILABLE PUBLICATIONS OF THE UNITED STATES DEPARTMENT OF AGRICULTURE

INTRODUCTION

This publication contains a list, alphabetically arranged and classified by subjects, of the available publications of the United States Department of Agriculture, together with a description of the nature and scope of the different series and of the various periodicals.

Instructions to be followed in ordering publications, and rules governing the distribution are also given.

RULES GOVERNING THE DISTRIBUTION OF DEPARTMENT PUBLICATIONS

Owing to the limited editions, it is not possible to have at all times in the Department stock, a supply of every publication issued. It has therefore been found necessary, except in special cases, to restrict the number furnished free in reply to individual requests to not more than 10 publications.

Four fifths of the publications of the series known as Farmers' Bulletins are allotted to Members of Congress, for such distribution as they may direct. Therefore, when publications of this class are desired in quantities, it is often possible to obtain them free by applying to a United States Senator or Representative. Also by a provision in the law governing the printing and distribution of Government publications, the Superintendent of Documents, Government Printing Office, is empowered to have printed for sale only, any publication for which there is a demand that cannot be filled by the Department issuing it. This Department does not sell publications. Hence when sale publications are wanted the request and the remittance should be addressed to the Superintendent of Documents, Government Printing Office, and not to the Department. The rules of that office require that remittances be made in advance of shipment of publications, either by coupons, sold in sets of 20 for \$1 and good until used, or by check or money order payable to the Superintendent of Documents. Currency may be sent at sender's risk. Postage stamps, foreign money, and defaced or smooth coins are not acceptable. For delivery to foreign countries add postage amounting to one third of the total cost.

The publications herein designated by an asterisk (*) can be obtained by purchase only.

INSTRUCTIONS FOR REQUESTING AND ORDERING PUBLICATIONS

REQUESTS FOR FREE PUBLICATIONS

Address your request to the Office of Information, Department of Agriculture, Washington, D.C.

Be sure to write name and address plainly and to include street and number or rural route number, as the case may be.

Indicate by both number and title the publication you desire.

If you do not find bulletins on the subject in which you are interested listed herein, write to the Department for information.

Do not send money or stamps to the Department in payment for publications or information.

ORDERS FOR PUBLICATIONS FOR SALE ONLY

Address your order, enclosing the proper remittance, to the Superintendent of Documents, Government Printing Office, Washington, D.C. Remittances should be made in the form of a postal money order, express money order, or New York draft. Do not send postage stamps or foreign money. Currency is sent only at the sender's risk.

No charge is made for postage on publications forwarded to points in the United States and its possessions, or to Canada, Cuba, Mexico, Panama Canal Zone, and the Republic of Panama. For delivery to other foreign countries add for postage one third of the advertised price.

Do not return this list in requesting or ordering publications, but write a list of those you desire when you send your letter.

SPECIAL.—It is earnestly requested that when ordering more than one publication, the correspondent arrange his list so that numbers designating the bulletins wanted will appear in consecutive order. This will greatly expedite the handling of the request.

NATURE AND SCOPE OF THE DIFFERENT SERIES

The various series of publications issued by the Department are here listed in alphabetical order.

CIRCULARS

The circular series carries semitechnical material of a somewhat informal and general nature. This series was formerly known as the Department Circular series, which ended with no. 425.

FARMERS' BULLETINS

Farmers' Bulletins cover a wide range of subject matter and are of interest to many persons. They are written in popular language and contain recommendations and directions for procedure in modern farm and household practices.

INVENTORIES OF SEEDS AND PLANTS IMPORTED

This series is a record of new or little-known seeds and plants procured mostly from abroad for the use of the Department, State experiment stations, and for distribution to experimenters in appropriate locations throughout the United States and its possessions. These publications are intended for distribution to the agricultural experiment stations, arboreta, botanic gardens, and to the more important private cooperators. There are four issues a year, each covering a 3-month period.

LEAFLETS

Leaflets carry popular material of the same general character as the Farmers' Bulletin series, except that they are confined to specific practical directions and recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and limited to eight pages in length.

MISCELLANEOUS PUBLICATIONS

This series includes publications of a miscellaneous nature which do not fall within any of the other series of the Department. They were formerly called the Miscellaneous Circular series, which ended with no. 110.

NORTH AMERICAN FAUNA

This is a technical series of the Bureau of Biological Survey, devoted principally to revisions of genera of mammals and to biological surveys of States and other major areas. These publications are of interest chiefly to professional biologists.

SERVICE AND REGULATORY ANNOUNCEMENTS

Service and Regulatory Announcements contain such notices of judgment, decisions, and other information needed in the enforcement of regulatory acts. They are issued as necessary by the Bureau of Agricultural Economics, the Bureau of Animal Industry, the Bureau of Biological Survey, the Bureau of Dairy Industry, the Bureau of Plant Industry, the Bureau of Plant Quarantine, and the Food and Drug Administration. Distribution is limited to public officials whose duties make it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements. The Bureau of Animal Industry issues one announcement each month, for which the Superintendent of Documents carries a subscription list at 25¢ a year domestic and 45¢ a year foreign. Single issues sell for 5¢ each. The Bureau of Plant Quarantine issues an announcement quarterly and others at irregular intervals. The important announcements published during the 3 months are reprinted, or summarized, in the quarterly announcement. These are not for sale. Requests should be made to the bureau concerned.

SOIL SURVEYS

Soil Survey Reports consist of two parts: (1) A printed report, containing brief descriptions of the area, its climate and agriculture, and detailed description of the soils; (2) a soil map in colors, showing the extent and distribution of the different soils in the area covered by the survey.

STATISTICAL BULLETINS

Statistical Bulletins consist mainly of tables giving statistics relating to one or more closely related agricultural commodities. They also include, insofar as possible, statistics of production, movement from the farm, receipts at principal markets, reshipments, farm and market prices, exports and imports, production in foreign countries, and foreign-market prices.

They are of interest to persons actually engaged in agricultural work, particularly marketing, or any business affected by agricultural production and marketing.

TECHNICAL BULLETINS

Results of the scientific and research work of the United States Department of Agriculture are printed in the Technical Bulletin series, which is intended for distribution chiefly to scientists and subject-matter specialists. In most cases a comparatively small edition is printed, and only a limited number is available for free distribution. Formerly these publications were called the Department Bulletin series, which ended with no. 1500.

YEARBOOK

The Yearbook of the Department contains a general report of the operations of the Department during the preceding calendar year, and articles of special interest and instruction to farmers. Selected articles in the Yearbook are reprinted in separate form. Available articles are listed in the subject list of publications.

PERIODICAL PUBLICATIONS

The following is a brief description of each periodical issued by the United States Department of Agriculture. The free mailing list is limited to not more than 2,000 addresses, outside of its employees and cooperators, for each periodical.

If an individual is engaged in work along agricultural lines and desires to be listed to receive any of these series, it will be necessary for him to furnish a description of nature and scope of the work with his application. The Department will then notify him whether or not it can comply with the request.

The Superintendent of Documents, Government Printing Office, Washington, D.C., maintains a subscription list for all periodical publications, and in case a person cannot be placed on the free list, he can, by sending the necessary remittance to that official, be placed on the subscription list.

AGRICULTURAL SITUATION

The Agricultural Situation, a 24-page bulletin issued monthly by the Bureau of Agricultural Economics, contains a brief general summary of current agricultural conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products. Its general purpose is to furnish extension workers and others with a very concise picture of economic conditions in agriculture from month to month. Free distribution is limited to Department employees, staff members of agricultural colleges, cooperators, libraries, and the press. 25¢ a year, domestic; 45¢ a year, foreign.

CLIMATOLOGICAL DATA

Climatological Data contains weather statistics from 42 sections, corresponding, as a rule, to States; issued monthly, with an annual summary. One section, 5¢ a month, 50¢ a year; all 42 sections, 35¢ a month, \$4 a year, including the annual summary; annual summary,

50¢. Climatological Data for Alaska, Hawaii, and West Indies are issued monthly, and in an annual summary. One section, 5¢ a month, 50¢ a year.

CLIP SHEET

The Clip Sheet is made up of short, interesting stories concerning the work of the United States Department of Agriculture and the application of new ideas and discoveries in the field of agriculture. From 4 to 6 stories, varying from fillers of a few lines to articles of 200 to 300 words, are included in each weekly issue. Free distribution to newspapers and other interested publications and writers. (No subscription list.)

CROPS AND MARKETS

Crops and Markets contains statistics concerning crops and livestock estimates and market information. It contains reports on supplies, stocks, commercial movements, condition and prices of agricultural products covered in the work of marketing and crop estimating, and studies of prices and demand. A feature is a page of charts which show the movement of prices of farm products and retail prices of commodities farmers buy. It is of particular interest to economists, statisticians, and persons whose business is affected by agricultural production and marketing. Free distribution is limited to Department employees, staff members of agricultural colleges, cooperators, libraries, and the press. \$1.00 a year, domestic; \$1.50 a year, foreign.

EXPERIMENT STATION RECORD

The Experiment Station Record is a technical review of the world's scientific literature pertaining to agriculture. It is issued in 2 volumes a year of 7 numbers each, and each volume contains about 3,500 abstracts of current research in the various fields of agriculture, together with brief notes on the progress of agricultural education and research and monthly editorials dealing with some phase of its advancement.

The Record is particularly designed for the use of research workers, teachers, extension specialists, and others desiring to keep abreast of the new information in the various fields of agriculture, and as a work of reference for ascertaining the status of research in these fields since it began publication in 1889. Free distribution is restricted mainly to workers in agricultural colleges and experiment stations and similar institutions, libraries, and exchanges. 15¢ a copy; \$1.00 a volume, domestic; \$1.50 a volume, foreign.

EXTENSION SERVICE REVIEW

The Extension Service Review, a monthly magazine issued by the Extension Service, is published in the interests of workers and cooperators of the Department of Agriculture engaged in extension activities. It contains official statements and other information necessary to the performance of their duties and is issued free to them by law. Others may obtain copies of the Review from the Superintendent of Documents, Government Printing Office, Washington, D.C., by subscription at the rate of 50¢ a year, domestic (single copies, 5¢ each), and 75¢ foreign. Postage stamps will not be accepted in payment.

JOURNAL OF AGRICULTURAL RESEARCH

The Journal of Agricultural Research is a semi-monthly publication containing articles on technical agricultural research carried on by the United States Department of Agriculture or the State experiment stations, or both cooperatively. It is therefore of primary interest only to agricultural scientists and advanced students. Free distribution of the Journal is limited to certain libraries and to institutions or departments doing research work. It is offered for sale at the following prices: Domestic, \$2.25 a year (2 volumes) or 10¢ a number; foreign, \$3.50 a year (2 volumes) or 15¢ a number. Each article in the Journal is reprinted as a "separate." These reprints or separates may be purchased for 5¢ each if ordered in advance of printing. Anyone interested can have his name placed on a mailing list to receive notice of the issuance of articles on the subjects in which he is interested. Requests to be placed on this list should specify the subjects concerning which it is desired to keep informed.

MONTHLY LIST OF PUBLICATIONS

This list is issued approximately on the twentieth day of each month, and gives the titles and description of each publication issued during the preceding month. Anyone so desiring will be listed to receive it as issued free of charge.

MONTHLY WEATHER REVIEW

The Monthly Weather Review contains contributions on meteorology and climatology; also climatological data for Weather Bureau stations. 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.

PUBLIC ROADS

Public Roads is a monthly periodical dealing with highway research. The results of investigations relating to the physical and economic problems of road building conducted by the Bureau of Public Roads and contributors outside of the Bureau are made available to road builders through this medium. Free distribution is restricted to State and county officials actually engaged in planning or constructing public highways, instructors in highway engineering, and periodicals upon an exchange basis. 10¢ a copy, \$1 a year, domestic; \$1.50 a year, foreign.

WEEKLY CORN AND WHEAT REGION BULLETIN

Weekly Corn and Wheat Region Bulletin, issued at Chicago, Ill., April 1 to September 30, inclusive. 30¢ a season; 70¢ a season, foreign.

WEEKLY COTTON REGION BULLETIN

Weekly Cotton Region Bulletin, issued at New Orleans, La., April 1 to October 31, inclusive. 30¢ a season; 75¢ a season, foreign.

WEEKLY WEATHER AND CROP BULLETIN

The Weekly Weather and Crop Bulletin gives detailed weather conditions of the preceding week and their effects on farm operations and the development of crops; shows variations of temperature and rainfall from normal week; total rainfall for the season in comparison with normal; snow and ice data (during the winter), and discusses the amount of sunshine and cloudiness. 50¢ a year.

AGRICULTURAL AND VISUAL EDUCATIONAL MATERIAL

(Maps, Charts, Photographs, etc.)

FOR SALE ONLY

(Apply direct to the Superintendent of Documents, Government Printing Office, Washington, D.C., for this sales material.)

Bureau of Agricultural Economics:

- *Geography of the world's agriculture. \$1.
- Atlas of American agriculture:
 - *Precipitation and humidity. \$1.50.
 - *Cotton. 50¢.
 - *Rural population and organization. 50¢.
 - *Temperature, sunshine, and wind. \$1.60.
- *Graphic summary of American agriculture. M. P. 105. 60¢.
- *Graphic summary of world agriculture. 713 Y. 15¢.
- *Economic charts.—Photographic prints, 8 by 10 inches, are furnished on order of any maps and charts issued by the Bureau of Agricultural Economics in current publications. A list is available upon request. Enlargements 30 by 40 inches for use as wall charts are made to order at 75¢ each on paper and \$1.25 each mounted on cloth.
- *Four charts showing wholesale and retail cuts of beef, veal, lamb, and fresh pork. 50¢ a set.
- *Colored map entitled "Natural land use areas of the United States". 50¢.

Bureau of Biological Survey:

- *Colored poster: Vandals of the night, while America sleeps, rats destroy entire labor of 200,000 men and pestilence lurks in their wake. For use in encouraging control of rats in cooperative campaigns. 5¢.
- *Color standards for grades of comb honey. Poster, 7 by 17 inches. 5¢.

Office of Cooperative Extension Work:

- *Educational charts on agricultural and home economics.—Copies of these charts, 12 by 15 inches in size, can be purchased from the Superintendent of Documents, Government Printing Office, Washington, D.C., at a price of 5 cents for single charts or any number up to five charts. Five charts are 5 cents. Each additional chart is 1 cent.
- 1.1a. Beef breeds of cattle.
- 1.176. Grades of beef, ribs and rounds.
- 1.3a. Breeds of hogs.
- 1.3b. Breeds of hogs.
- 1.33. Comparison of bacon and lard types of hogs.
- 1.40. Light breeds of horses.
- 1.402. Heavy breeds of horses.
- 1.6. Breeds of sheep.
- 1.271. Milk and butter production.
- 1.2732. Cheese making.
- 1.2737. Cheeses.
- 1.682. More popular lamb cuts.
- 1.384. Pork loins and chops.
- 1.383. Bacon, bacon trimmings, and jowl bacon.
- 1.382. Rough and trimmed ham and shoulder.
- 1.381. Rough and trimmed pork cuts.
- 1.683. Less known lamb cuts.
- 1.681. Wholesale cuts of lamb.
- 2.21. Corn and corn plants.
- 2.22. Corn production.
- 2.23. Pests of corn.
- 2.24. (1) Harvesting corn.
- 2.24. (2) Harvesting corn.
- 2.25. The corn crop.
- 2.26. Seed corn.
- 2.51. Rice.
- 2.52. Rice production.
- 2.01. Four small grains.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Office of Cooperative Extension Work—Continued.

- 2.02. Production of small grains.
- 2.03. Pests of small grains.
- 2.04. Harvesting small grains.
- 2.05. Grain marketing.
- 3.01. Some fiber plants.
- 3.20. Fiber flax.
- 3.11. The cotton plant.
- 3.72. Wool production.
- 3.71. Some grades of wool.
- 8.31. Some types of weaves.
- 8.32. Some points in fitting dresses and blouses with set-in sleeves.
- 8.35. Some things to remember in judging fabrics.
- 5.272. Dried fruit industry.
- 5.72. Potato cultivation and planting.
- 5.74. Potato spraying and harvesting.
- 5.80. Sweetpotatoes.
- 5.090. (1) Storage of fruits and vegetables for home use.
- 5.099. (2) Storage of fruits and vegetables for home use.
- 5.564. Dryness in citrus fruits.
- 5.565. Appearance and quality of citrus fruit.
- 5.79. Some causes of potato waste.
- 6.12. Sugarcane.
- 6.22. Sugar beet.
- 6.32a. Cigar tobacco.
- 6.32b. Flue-cured tobacco.
- 6.91. Buckwheat and arrow root.
- 7.78. Veneer and its uses in furniture construction.
- 7.70. Furniture woods.
- 7.77. How lumber may be cut.
- 8.104. In days of plenty provide for the lean months.
- 8.10. A well-planned farm food supply.
- 8.21a. Good sources of vitamins A and D.
- 8.21b. Good sources of vitamins B and C.
- 8.271. Bone growth begins before birth.
- 8.272. Poorly built bones go wrong.
- 8.273. (1) The teeth and their structure. (Photographs.)
- 8.273b. (2) The teeth and their structure. (Diagrams.)
- 8.274. The development of the teeth illustrated by X rays of the jaws of children.
- 8.275. The development of the teeth illustrated by X rays of the jaws.
- 8.276. Premature loss of temporary teeth may deform the jaws.
- 8.278. Sunshine is necessary for mothers as well as children.
- *Film strips in series covering a variety of agricultural and home economics subjects accompanied with supplementary notes for lecture use. A price list of available film strips may be obtained from the Office of Cooperative Extension Work.

Forest Service:

Poster: Death rides the forest when man is careless.

Photographic material:

The Forest Service has a collection of over 50,000 pictures of various sizes, showing characteristic growth and types of forest in the United States, various phases of forest work, forest industries, administration and use of the national forests, and related subjects. Prints of these photographs, as well as enlargements either in sepia or in black and white, may be purchased. A price list of photographic material will be sent upon request to the Forest Service, Washington, D.C.

Bureau of Home Economics:

- *Composition of food material. Set of 15 colored charts, 24 by 18 inches. \$1 a set.
- *The convenient kitchen. Set of black and white charts, 16 by 20 inches. 50¢ per set.
- *Food selection and meal planning. Set of 8 black and white charts, 18 by 23 inches. 50¢ per set.
- *100 Caloric portions of a few familiar foods; 1 chart 23 by 17 inches showing pen and ink sketches of 20 foods. 10¢.
- *Household refrigeration. Set of 6 black and white charts, 16 by 20 inches. 20¢ per set.
- *Nutrition. Set of 10 black and white charts, 15 by 23 inches. 50¢ per set.
- *Child feeding. Set of 8 black and white charts, 15 by 23 inches. 25¢ per set.

Office of Information:

- *Photographs of plants, animals, insects, and other subjects like or similar to illustrations in Department publications. Office of Information, United States Department of Agriculture, 5 by 7, 9¢, 6½ by 8½, 12¢, 8 by 10, 18¢ each.
- *Photographs of weed seed found in commercial seed, 6½ by 8½. 15 in set, \$1.80.

Bureau of Plant Industry:

- *13 colored posters, 7½ by 12 inches, of diseases of potatoes. 65¢ per set.
- *2 colored posters, 7½ by 12 inches, of diseases of corn. 10¢ per set.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Bureau of Plant Industry—Continued.

*11 colored posters, 7¼ by 12 inches, of diseases of tomatoes, eggplants, and peppers. 55¢ per set.

(If not interested in an entire set, write to the Bureau of Plant Industry, Department of Agriculture, Washington, D.C., for a description of each poster.)

Bureau of Public Roads:

*Desk-size map showing the numbered system of United States highways. 15¢.

*Progress maps showing the status of improvements of the Federal-aid highway system in the 48 States. 114 sheets at 10¢ per sheet.

Weather Bureau:

*Weather maps series.—(1) Barometer table, (2) Explanation of weather map and sample weather map, (3) Cloud chart, (4) The Weather Bureau, pamphlet descriptive of work of Bureau. 10¢ per set.

*Daily weather map (Form C, 19 by 24 inches), issued at Washington, D.C., shows the weather conditions for the United States and the forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ per month, \$3.00 per year; daily, including Sundays and holidays, 30¢ per month, \$3.60 per year; Sunday and holiday maps only (no subscription for less than 6 months), 30¢ for 6 months, 60¢ per year; foreign subscriptions, \$9.10 per year.

*Daily weather maps (Map DD, 11 by 16 inches, and Map CM, 8 by 12 inches, printed, and Map E, 11 by 16 inches, mimeographed), showing the weather conditions and forecasts, issued daily, except Sundays and holidays, at numerous stations throughout the United States; 20¢ per month, \$2.40 per year.

*Copies of the daily weather map (DD, E, and CM) cannot be furnished in quantities unless the order is placed in advance of issue with the official in charge of the station or with the Superintendent of Documents, Washington, D.C., and are sold (not less than 25) at 80¢ per 100 copies.

*Climatic charts for United States; 12 in series 10 by 16 inches; (1) normal annual precipitation; (2) average number of days with precipitation; (3) normal annual temperature; (4) normal January temperature; (5) normal July temperature; (6) highest temperature ever observed; (7) lowest temperature ever observed; (8) mean relative humidity (per cent) January, 8 a.m., 75th meridian time; (9) mean relative humidity (per cent) January, 8 p.m., 75th meridian time; (10) mean relative humidity (per cent), July 8 a.m., 75th meridian time; (11) mean relative humidity (per cent), July, 8 p.m., 75th meridian time; (12) average minimum temperature (Fahrenheit), January. Single charts 5¢ each, 50¢ per set.

*Blank Weather Maps for use in meteorological studies will be furnished on receipt of price, viz, Washington base maps (Form C, 19 by 24 inches), \$1 per 100; station base maps (Maps DD, 11 by 16 inches), 25¢ per 100. Blank maps, being of the nature of supplies, cannot be furnished free. Draft or money order must be made payable to Disbursing Clerk, U.S. Department of Agriculture, Washington, D.C., and forwarded with order to U.S. Weather Bureau, Washington, D.C. When more than 50 blank Washington base maps (Form C, 19 by 24 inches) or more than 150 blank stations base maps (Maps DD, 11 by 16 inches) are ordered at one time shipment has to be made by express "collect" for express charges, and must be so authorized by purchaser. Full shipping instructions must accompany the order.

FOR FREE DISTRIBUTION

(Apply to bureau concerned for this free material)!

Bureau of Agricultural Economics:

Poster entitled "We sell U.S. Government graded and stamped beef." Issued to meat retailers who are handling U.S. graded beef. Colored posters showing type animals of the official grades of live animals; U.S. grades for slaughter steers; U.S. grades for heifers; and U.S. grades for slaughtered cows.

Colored poster: U.S. grades for cannery tomatoes, showing types of three grades.

Colored charts showing United States standards and grades for eggs. This brings out differences in egg quality as seen before the candle.

Bureau of Animal Industry:

Pictures of improved livestock: (1) Judging dairy cows at a community picnic; (2) Purebred Percheron stallion; (3) Southdown sheep for mutton production; (4) Little pigs; (5) Flock of White Wyandottes; (6) Herd of accredited dairy cattle; (7) Angora goats; (8) Morgan horse; (9) Club boy with beef cattle; (10) Mules.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Bureau of Animal Industry—Continued.

Posters showing the value of using good sires in breeding work. (1) Value of purebreds; (2) Ten points in better feeding; (3) For the children's sake; (4) Which way is your livestock going? (5) Purebred sires and herd improvement; (6) Standard-bred poultry pays best; (7) 48 percent more money from purebreds; (8) Use more purebred sires (sheep); (9) Mold your animals; (10) Well-bred cattle yield most meat (steers).

Posters showing causes or symptoms of livestock diseases, methods of prevention, and eradication: (1) Scabies, (2) Hog cholera, (3) Tuberculosis.

Map of the United States showing extent of bovine tuberculosis.

Poster illustrating and describing life cycle of common sheep liver fluke.

Poster showing roundworm's journey through the hog.

Poster showing the effect of the cattle tick on the appearance of the animal.

Map showing area quarantined because of cattle ticks.

Posters on eggs and poultry: (1) Do you know a good egg? (2) Hatch early—why it pays; (3) Attend poultry shows.

Colored poster showing how to buy good beef.

Bureau of Entomology:

Help fight the European corn borer. (Poster.)

Poster showing insect pests and their work and method of control: (3) Wheat joint worm.

Forest Service:

Maps and Posters:

Map (in colors) showing national forests and related data (19 by 36 inches).

Map (in colors) showing the natural forest regions of the United States (18 by 20 inches).

Colored posters:

"and all the King's horses and all the King's men can't put the forest together again." (Fire.)

Prevent forest fires—it pays.

Everybody loses when timber burns.

Fire—the outlaw.

Death rides the forest. (Fire.)

Children will need timber.

How the tree grows (22 by 28 inches).

Pines pay (of interest to Southern States).

Good farm practice—keep stock out of the woods.

Posters:

The farm woods a savings bank paying interest (of interest to Northern States).

The farm woods—a savings bank paying interest (of interest to Southern States).

The unburned woods—Nature's timber treasure house—home of life and beauty.

Tree Description Sheets:

Tree Description Sheets contain pictures of the tree and its parts and text dealing with the range of the species, habits of growth, description of wood, uses, etc.

The following are now available for distribution:

(1) Yellow poplar; (2) Northern white pine; (3) Longleaf pine.

Bureau of Plant Industry:

Colored posters showing life cycles of black stem rust and its host plants, wheat and common barberry.

Colored posters of white pine blister rust for schools in white pine States, New England, New Jersey, New York, Pennsylvania, Michigan, Wisconsin, Minnesota.

Bureau of Public Roads:

Desk-size map showing the Federal-aid highway system.

Weather Bureau:

Educational series (free to principals and teachers of high schools):

Cloud forms (12 half-tone plates).

Wind barometer table (leaflet).

The Weather Bureau (descriptive pamphlet).

Explanation of the Weather Map (leaflet).

Sample copy of Washington Daily Weather Map.

The educational series may be obtained by others, at 10¢ per set; 15¢ foreign.

MATERIAL LENT

The following material is grouped according to bureaus and is lent to responsible persons and organizations who agree to pay expressage both ways, and to return the material within 30 days. Sizes, weights, and any other information concerning this material will be furnished on request by the bureaus issuing it.

Bureau of Animal Industry:

Exhibits, six in number, dealing with tuberculosis in livestock and consisting of lantern slides, illustrated panels, specimens of tissues, colored maps and charts mounted on cloth.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Bureau of Animal Industry—Continued.

Exhibits on hog-cholera control, two in number, both containing illustrated panels and one containing, in addition, six specimens of hog cholera and six of foot-and-mouth disease.

Exhibits, seven in number, on the following livestock parasites, these exhibits consisting of illustrated panels and charts mounted on cloth: Stomach worms and external parasites of sheep, roundworms of swine, and method of treating hookworms in dogs.

Exhibits on improving livestock: (Panels and models) (1) Better feeding; (2) Know good beef; (3) Experimental swine equipment; (4) Health sticks to clean chicks; (5) Better sires; (Charts mounted on cloth) (1) Poultry management, 6 charts.

Exhibits on poultry: 5 folding panels on sanitation, brooding, etc.

Exhibit on meat inspection, consisting of illustrated panels and specimens of tissues.

Forest Service:

Traveling Photograph Exhibits (for use of teachers only).

These exhibits are sent out on the condition that the borrower pay transportation charges and be responsible for the material while charged with it. They are divided into three classes as follows:

Forestry in nature study (32 enlarged photographs arranged in 8 series of 4 pictures each, showing forest trees and their growth, bark, buds, flowers, seeds, forests of the United States, enemies of the forest, etc.).

Our forests, what they mean to us (32 enlarged photographs arranged in 8 series of 4 pictures each, showing special features of forest work, forest conditions, and administration and use of the National Forests).

Farm woodlands (28 enlarged photographs arranged in 7 series of 4 pictures each, showing farm woods, their management, products, how they benefit the farmer, etc., prepared especially for the use of rural and agricultural schools.

Lantern Slides:

Sets of colored lantern slides, arranged for use with lecture outlines, are available for loan from the Forest Service to schools, colleges, State forest officers, women's clubs, and other organizations. They cover the following subjects:

Farm forestry in the South.....	54 slides.
Farm woodlands.....	57 slides.
Forest botany.....	52 slides.
Forest conservation.....	44 slides.
Forestry and agriculture.....	50 slides.
Forestry and manual training.....	55 slides.
Forestry and nature study.....	50 and 72 slides.
Forestry in the United States.....	44 slides.
Forests and geography.....	50 slides.
Keeping livestock out of the woods in the North Central States.....	54 slides.
Life of a tree.....	52 slides.
National forest playgrounds.....	60 slides.
Street trees.....	65 slides.
Tree windbreaks.....	50 slides.
Work of the Forest Service.....	55 slides.

In addition to these special sets, the Forest Service has available for loan from its general collection, several thousand slides covering the characteristic forest growth of the United States; various phases of forest work; silviculture; watershed protection and erosion control; industries dependent upon the forests; protection of the forests, including fire control and suppression; administration and use of the national forests, and related subjects.

General:

Exhibit material of a general nature is available for loan for the use of high schools and colleges, as follows:

Folding Panels:

Keep fire out.

Chain of forest resources.

Grow timber.

Dual purpose trees (turpentine).

Farm forestry pays.

Fire (in cutover pine lands).

Game and the forest.

The forest is your friend. (Deals with forest fire and recreation.)

Prevent erosion.

Which side of the fence are you on? (Showing forest protection with use of plowed fire lines.)

The forest and water. (Designed to show the relation of the forest to our water supply.)

Forest fires or game. (Designed to show the forest as a home for wild life and its destruction by fire.)

Publications preceded by an asterisk (*) are obtainable by purchase only.

Forest Service—Continued.**General—Continued.****Folding Panels—Continued.**

Improve your farmwoods. (Shows how the woods should be thinned of undesirable trees which may be used or sold when cut.)

Educational Panels:

(Tree studies—Their growth and how their wood is used:)

White pine	Yellow birch	Hickory
Slash pine	Paper birch	Beech
Norway pine	Sugar maple	American elm
Longleaf pine	Chestnut	Red gum
Shortleaf pine	Red spruce	Yellow poplar
Loblolly pine	Red cedar	Sycamore
Virginia pine	Red oak	Dogwood
White ash	Black cherry	Cypress
Black walnut	Basswood	Black locust
		Hemlock

Colored bromides on turpentine, planting, second growth, forest-fire equipment, scenery, forest fires, erosion, denuded areas, and slogans for care with fire.

PUBLICATIONS OF INTEREST TO TEACHERS AND STUDENTS

(Not recommended for primary grades)

ANIMAL HUSBANDRY—DAIRYING**Farmers' Bulletins:**

- 576 F. Breeds of sheep for the farm. 5¢.
- 602 F. Production of clean milk. 5¢.
- 612 F. Breeds of beef cattle. 5¢.
- 619 F. Breeds of draft horses. 5¢.
- *779 F. How to select a sound horse. 5¢.
- *840 F. Farm sheep raising for beginners. 5¢.
- 920 F. Milk goats. 5¢.
- 952 F. Breeds of light horses. 5¢.
- 1066 F. Determining the age of cattle by the teeth. 5¢.
- 1068 F. Judging beef cattle. 5¢.
- 1069 F. Tuberculosis in livestock. Detection, control, and eradication. 5¢.
- 1167 F. Essentials of animal breeding. 5¢.
- 1172 F. Farm slaughtering and use of lamb and mutton. 5¢.
- 1186 F. Pork on the farm. Killing, curing, and canning. 5¢.
- 1199 F. Judging sheep. 5¢.
- 1203 F. The Angora goat. 5¢.
- 1244 F. Diseases, ailments, and abnormal conditions of swine. 5¢.
- 1263 F. Breeds of swine. 5¢.
- 1415 F. Beef on the farm—slaughtering, cutting, curing. 5¢.
- 1419 F. Care and management of farm work horses. 5¢.
- 1437 F. Swine production. 5¢.
- 1443 F. Dairy cattle breeds. 5¢.
- 1455 F. Fitting, showing, and judging hogs. 5¢.
- 1506 F. Standard breeds and varieties of chickens. I. American, Asiatic, English, and Mediterranean classes. 5¢.
- 1507 F. Standard breeds and varieties of chickens. II. Continental European, Oriental, Game, Ornamental, and miscellaneous classes. 5¢.
- 1524 F. Farm poultry raising. 5¢.
- 1536 F. Infectious abortion of cattle. 5¢.
- 1554 F. Poultry houses and fixtures. 5¢.
- 1592 F. Beef production on the farm. 5¢.
- 1610 F. Dairy farming for beginners. 5¢.
- 1652 F. Diseases and parasites of poultry. 5¢.

Department Circular:

- *371 DC. Use of the camera in studying the growth and development of dairy animals. 10¢.

Miscellaneous Circulars:

- *12 MC. Handbook for better feeding of livestock. 15¢.
- *99 MC. Judging dairy cattle. 10¢.

Miscellaneous Publications:

- *25 MP. Calendar of livestock parasites. 5¢.

Yearbook Separates:

- *874 Y. Our beef supply. 20¢.
- *894 Y. The sheep industry. 15¢.

BIRDS—MAMMALS—INSECTS**Farmers' Bulletins:**

- *450 F. Some facts about malaria. 5¢.
- 497 F. Some common game, aquatic, and rapacious birds in relation to man. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Farmers' Bulletins—Continued.

- *513 F. Fifty common birds of farm and orchard. (Contains colored illustrations.) 25¢.
 621 F. How to attract birds in northeastern United States. 5¢.
 630 F. Some common birds useful to the farmer. 5¢.
 658 F. Cockroaches. 5¢.
 *662 F. The apple-tree tent caterpillar. 5¢.
 675 F. The roundheaded apple-tree borer. 5¢.
 701 F. The bagworm, an injurious shade-tree insect. 5¢.
 705 F. The catalpa sphinx. 5¢.
 731 F. The true army worm and its control. 5¢.
 739 F. Cutworms and their control in corn and other cereal crops. 5¢.
 740 F. House ants: Kinds and methods of control. 5¢.
 754 F. The bedbug. 5¢.
 755 F. Common birds of southeastern United States in relation to agriculture. 5¢.
 760 F. How to attract birds in northwestern United States. 5¢.
 763 F. Orchard barkbeetles and pinhole borers and how to control them. 5¢.
 844 F. How to attract birds in the Middle Atlantic States. 5¢.
 857 F. Screw worms and other maggots affecting animals. 5¢.
 891 F. The corn root-aphis and methods of controlling it. 5¢.
 897 F. Fleas and their control. 5¢.
 912 F. How to attract birds in the East Central States west of Pennsylvania, north of Tennessee, and east of the one-hundredth meridian. 5¢.
 *1065 F. The flatheaded apple-tree borer. 5¢.
 1097 F. The stable fly: How to prevent its annoyance and its losses to livestock. 5¢.
 1169 F. Insects injurious to deciduous shade trees and their control. 10¢.
 1246 F. The peach borer. How to prevent or lessen its ravages. The para-dichloro-benzene treatment. 5¢.
 *1252 F. Sawflies injurious to rose foliage. 5¢.
 1260 F. Stored grain pests. 5¢.
 1346 F. Carpet beetles and their control. 5¢.
 1353 F. Clothes moths and their control. 5¢.
 1408 F. The house fly and how to suppress it. 5¢.
 1456 F. Homes for birds. 5¢.
 1484 F. The clover leaf weevil and its control. 5¢.
 1495 F. Insect enemies of the flower garden. 5¢.
 1498 F. The chinch bug and how to fight it. 5¢.
 1499 F. The melon aphid and its control. 5¢.
 1548 F. The European corn borer: Its present status and methods of control. 5¢.
 1569 F. Earthworms as pests and otherwise. 5¢.
 1586 F. The southern pine beetle: A serious enemy of pines in the South. 5¢.
 *1601 F. Collection and preservation of insects for use in the study of agriculture. 5¢.
 1623 F. The gipsy moth and the brown-tail moth. 5¢.
 1624 F. The Mexican bean beetle in the East and its control. 5¢.
 1627 F. The Hessian fly and how losses from it can be avoided. 5¢.
 1644 F. Local bird refuges. 5¢.
 1651 F. The corn earworm as an enemy of field corn in the Eastern States. 5¢.
 1682 F. Usefulness of birds on the farm. 5¢.
 1688 F. Insect enemies of the cotton plant. 5¢.
 1691 F. How to control grasshoppers in cereal and forage crops. 5¢.

Leaflets:

- 2 L. Cutworms in the garden. 5¢.
 101 L. Injury to buildings by termites. 5¢.

Technical Bulletins:

- *86 T. Imported insect enemies of the gipsy moth and the brown-tail moth. 50¢.
 *190 T. A study of the lesser migratory grasshopper. 10¢.
 *320 T. The citrus blackfly in Asia, and the importation of its natural enemies into tropical America. 10¢.

Circulars:

- *221 C. The white pine weevil. 5¢.
 *237 C. Control of the Japanese beetle on fruit and shade trees. 5¢.
 *238 C. Control of larvae of the Japanese and the Asiatic beetles in lawns and golf courses. 5¢.
 *246 C. Life history and control of the Asiatic garden beetle. 5¢.

Miscellaneous Publications:

- 2 MP. Story of the cattle-fever tick; what every southern child should know about cattle ticks. 10¢.
 *35 MP. Cotton or weevils. 10¢.
 *51 MP. National wild-life reservations. 5¢.
 *86 MP. Outlines for studies of mammalian life histories. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Yearbook Separates:

- *836 Y. Conserving our wild animals and birds. 5¢.

North American Fauna:

- *49 N.A.F.A biological survey of North Dakota. I. Physiography and life zones. II. The mammals. 60¢.

- *53 N.A.F. Mammals of New Mexico. \$1.00.

Miscellaneous:

- *Hawks and owls from the standpoint of the farmer. (Biological Survey Circular 61.) 5¢.

BOTANY**Farmers' Bulletins:**

- 157 F. Propagation of plants. 5¢.
 *428 F. Testing farm seeds in the home and in the rural schools.
 *586 F. Collection and preservation of plant material for use in the study of agriculture. 5¢.

Miscellaneous Publications:

- *77 MP. American medicinal plants of commercial importance. 30¢.

FERTILIZERS—SOILS**Farmers' Bulletins:**

- 921 F. Principles of the liming of soils. 5¢.
 1475 F. Soil productivity as affected by crop rotations. 5¢.
 1496 F. Inoculation of legumes and non-legumes with nitrogen-fixing and other bacteria. 5¢.

Leaflets:

- 70 L. Home mixing of fertilizers. 5¢.

Circulars:

- 129 C. Survey of the fertilizer industry. 5¢.

Miscellaneous Publications:

- 126 MP. Fertilizers for cotton soils. 5¢.
 136 MP. Conservation of fertilizer materials from minor sources. 5¢.
 *143 MP. American fertilizers. 5¢.

FIBER—FORAGE—GRAIN CROPS**Farmers' Bulletins:**

- 414 F. Corn cultivation. 5¢.
 669 F. Fiber flax. 5¢.
 *786 F. Fall-sown grains in Maryland and Virginia. 5¢.
 *800 F. Grains for the dry lands of Central Oregon. 5¢.
 *878 F. Grains for western North and South Dakota. 5¢.
 1062 F. Buckwheat. 5¢.
 *1103 F. Growing irrigated grain in southern Idaho. (In cooperation with the Idaho Agricultural Experiment Station.) 5¢.
 1148 F. Cowpeas, culture and varieties. 5¢.
 1158 F. Growing and utilizing sorghums for forage. 5¢.
 1162 F. Proso, or hog millet. 5¢.
 1175 F. Better seed corn. 5¢.
 *1240 F. How to grow rice in the Sacramento Valley. 5¢.
 1384 F. Community cotton production. 5¢.
 1429 F. Emmer and spelt. 5¢.
 *1432 F. Culture of Pima and upland cotton in Arizona. 5¢.
 1464 F. Barley: Culture, uses, and varieties. 5¢.
 1577 F. Harvesting grain sorghums. 5¢.
 1661 F. Farm study of the cotton plant. 5¢.
 1686 F. Common errors in cotton production. 5¢.

Miscellaneous Circulars:

- *43 MC. Lessons on cotton for elementary schools. 10¢.

Circulars:

- *2 C. Acala cotton, a superior upland variety from southern Mexico. 20¢.

Miscellaneous Publications:

- *131 MP. A dangerous neighbor (common barberry) for wheat, oats, barley, and rye. 5¢.

Yearbook Separates:

- *873 Y. Wheat production and marketing. 10¢.

FLOWERS**Farmers' Bulletins:**

- 750 F. Roses for the home. 5¢.
 1171 F. Growing annual flowering plants. 5¢.
 1311 F. Chrysanthemums for the home. 5¢.
 1370 F. Dahlias for the home. 5¢.
 1381 F. Herbaceous perennials. 10¢.
 1406 F. Garden irises. 5¢.

FORESTRY—CONSERVATION**Farmers' Bulletins:**

- *173 F. Part I, A primer of forestry. 5¢.
 *358 F. Part II, A primer of forestry. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Farmers' Bulletins—Continued.

- 744 F. Preservative treatment of farm timbers. 5¢.
- 1071 F. Making woodlands profitable in the Southern States. 5¢.
- 1177 F. Care and improvement of farm woods. 5¢.
- 1210 F. Measuring and marketing farm timber. 5¢.
- *1366 F. Production of maple sirup and sugar. 5¢.
- *1392 F. Black walnut for timber and nuts. 5¢.
- 1405 F. The windbreak as a farm asset. 5¢.
- 1453 F. Growing and planting coniferous trees on the farm. 5¢.
- 1486 F. Longleaf pine primer. 5¢.
- *1492 F. Arbor day: Its purpose and observance. 5¢.
- 1517 F. Loblolly pine primer. 5¢.
- 1628 F. Growing black locust trees. 5¢.
- 1641 F. Chestnut blight. 5¢.
- 1664 F. Christmas trees as a cash crop for the farm. 5¢.
- 1671 F. Shortleaf pine. 5¢.
- 1680 F. Farmers in Northern States grow timber as a money crop. 5¢.

Leaflets:

- 29 L. The farm woods—a savings bank paying interest. 5¢.
- *30 L. Cutting the farm woods "profitwise." 5¢.
- 32 L. Planting southern pine. 5¢.
- 35 L. Producing pine nursery stock in the South. 5¢.
- 40 L. Woods burning in the South. 5¢.
- 41 L. Good naval stores practice. 5¢.
- 55 L. Small trees wasteful to cut for saw timber. 5¢.
- 56 L. Preventing cracks in new wood floors. 5¢.
- 57 L. Pulpwood crops in the Northeast. 5¢.
- *58 L. Making a model to show how forests prevent erosion. 5¢.
- 62 L. Why some wood surfaces hold paint longer than others. 5¢.
- 84 L. Planting black walnut. 5¢.

Department Bulletins:

- *1119 D. Lumber cut in the United States, 1870–1920. 15¢.
- *1485 D. Suitability of American woods for paper pulp. 20¢.
- *1497 D. Forest planting in the Lake States. 20¢.
- *1500 D. The gluing of wood. 25¢.

Statistical Bulletins:

- *21 S. American forests and forest products. 45¢.

Department Circulars:

- *211 DC. Government forest work. 10¢.

Miscellaneous Circulars:

- *31 MC. Let's know some trees (California). 15¢.
- *53 MC. When fire is banished from the land of the white oak. 5¢.
- *66 MC. Identification of furniture woods. 25¢.
- *79 MC. Forest fire prevention handbook for school children (California). 15¢.
- *88 MC. Forest fire prevention handbook for schools of Arizona. 10¢.
- *89 MC. Forest fire prevention handbook for schools of New Mexico. 10¢.
- *98 MC. The forest: A handbook for teachers. 10¢. (In lots of 1,000 or more, 98 MC is sold for 7½¢ a copy.)

Circulars:

- *19 C. Forests and floods. 5¢.
- *33 C. Soil erosion a national menace. 25¢.

Miscellaneous Publications:

- *20 MP. Forest fire prevention handbook for schools of Oregon. 5¢.
- *40 MP. Forest fire prevention handbook for schools of Washington. 15¢.
- *45 MP. Forestry clubs for young people. 5¢.
- *46 MP. The strength of North American woods. 5¢.
- *51 MP. National wild-life reservations. 5¢.
- *87 MP. Profits from farm woods (Southern States). 5¢.
- *106 MP. Pine tree treasures. 5¢.
- *109 MP. Forest ranger's catechism: Questions and answers on the national forests of the California region. 15¢.
- *162 MP. Our forests: What they are and what they mean to us. 5¢.

Yearbook Separates:

- *847 Y. How the public forests are handled. 5¢.
- *856 Y. Putting wood waste to work. 5¢.
- *886 Y. Timber: Mine or crop. 15¢.

FRUITS—NUTS—VEGETABLES**Farmers' Bulletins:**

- *218 F. The school garden. 5¢.
- 1001 F. Growing fruit for home use. 5¢.
- 1242 F. Permanent fruit and vegetable gardens. 5¢.
- 1501 F. Nut-tree propagation. 5¢.
- 1673 F. The farm garden. 10¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

HOME ECONOMICS

Farmers' Bulletins:

- 712 F. School lunches. 5¢.
- 1180 F. Housecleaning made easier. 5¢.
- *1195 F. Rice as food. 5¢.
- 1219 F. Floors and floor coverings. 5¢.
- 1236 F. Corn and its uses as food. 5¢.
- 1374 F. Care of food in the home. 5¢.
- 1449 F. Selection of cotton fabrics. 5¢.
- 1450 F. Home baking. 5¢.
- 1471 F. Canning fruits and vegetables at home. 5¢.
- 1474 F. Stain removal from fabrics: Home methods. 5¢.
- 1497 F. Methods and equipment for home laundering. 5¢.
- 1513 F. Convenient kitchen. 5¢.
- 1530 F. Fitting dresses and blouses. 5¢.
- 1553 F. Planning and recording family expenditures. 5¢.
- 1633 F. Window curtaining. 5¢.
- 1674 F. Food for children. 5¢.
- 1705 F. Milk for the family. 5¢.

Leaflets:

- *17 L. Cooking beef according to the cut. 5¢.
- *28 L. Lamb as you like it. 5¢.
- 39 L. Eggs at any meal. 5¢.
- 42 L. Good food habits for children. 5¢.
- *45 L. Pork in preferred ways. 5¢.
- 49 L. Ice creams frozen without stirring. 5¢.
- 52 L. Suits for the small boy. 5¢.
- *54 L. Play suits for winter. 5¢.
- 63 L. Ensembles for sunny days. 5¢.
- 76 L. Slip covers. 5¢.
- 79 L. Rompers. 5¢.
- 80 L. Dresses for little girls. 5¢.
- *81 L. Cooking cured pork. 5¢.

Miscellaneous Circulars:

- *49 MC. A guide to good meals for the junior homemaker. 5¢.
- *90 MC. Score cards for judging clothing selection and construction. 5¢.

Circulars:

- *265 C. Conserving food value, flavor, and attractiveness in cooking vegetables. 5¢.

Miscellaneous:

- *Aunt Sammy's radio recipes, revised. 10¢.

SUGAR—TOBACCO

Farmers' Bulletins:

- 523 F. Tobacco curing. 5¢.
- 571 F. Tobacco culture. 5¢.
- 1034 F. Growing sugarcane for sirup. 5¢.
- 1389 F. Sorgo-sirup manufacture. 5¢.
- 1580 F. Cigar-tobacco production in Pennsylvania. 5¢.
- 1629 F. Steam sterilization of soil for tobacco and other crops. 5¢.

Yearbook Separates:

- *893 Y. Sugar. 20¢

MISCELLANEOUS SUBJECTS

Farmers' Bulletins:

- 1087 F. Beautifying the farmstead. 5¢.

Department Bulletins:

- *258 D. Lessons in elementary agriculture for Alabama schools by months. 5¢.
- *355 D. Extension course in soils, for self-instructed classes in movable schools of agriculture. 10¢.
- *540 D. First-year course in home economics for southern agricultural schools. 10¢.
- *592 D. Courses in secondary agriculture for southern schools, third and fourth years. 5¢.

Department Circulars:

- *67 DC. How teachers may use Farmers' Bulletin 602, "Production of clean milk." 5¢.
- *155 DC. How teachers may use Farmers' Bulletin 1087, "Beautifying the farmstead." 5¢.
- *156 DC. How teachers may use Farmers' Bulletin 1175, "Better seed corn." 5¢.
- *157 DC. How teachers may use Farmers' Bulletin 1148, "Cowpeas, culture, and varieties." 5¢.

Miscellaneous Publications:

- 72 MP. Lantern slides and film strips of the U.S. Department of Agriculture. 5¢.
- *85 MP. Horticultural exhibitions. 10¢.
- 91 MP. Film strips of the U.S. Department of Agriculture. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Miscellaneous Publications—Continued.

- *105 MP. A graphic summary of American agriculture based largely on the census. 60¢.
 152 MP. Motion pictures of the United States Department of Agriculture. 5¢.

Yearbook Separates:

- *607 Y. Agriculture in public high schools. 5¢.
 *635 Y. Story of the thermometer and its uses in agriculture. 5¢.
 *832 Y. Science seeks the farmer. 5¢.
 *1101 Y. Agricultural maps. 5¢.
 *1141 Y. Exhibits for fairs give comprehensive farm information. 5¢.

Miscellaneous:

- *Economic trends affecting agriculture. 5¢.
 *Science serving agriculture. 5¢.

ACCOUNTING—BUDGETING—FARM MANAGEMENT**Farmers' Bulletins:**

- 511 F. Farm bookkeeping. 5¢.
 572 F. A system of farm cost accounting. 5¢.
 782 F. The use of a diary for farm accounts. 5¢.
 924 F. A simple way to increase crop yields. 5¢.
 *986 F. Farm practices that increase crop yields in the Gulf Coast region. 5¢.
 1015 F. Producing family and farm supplies on the cotton farm. 5¢.
 1082 F. Home supplies furnished by the farm. 5¢.
 1088 F. Selecting a farm. 10¢.
 1117 F. Forestry and farm income. 5¢.
 1139 F. A method of analyzing the farm business. 5¢.
 1164 F. The farm lease contract. 5¢.
 1182 F. Farm inventories. 5¢.
 *1421 F. Successful farming on eighty-acre farms in central Indiana. 5¢.
 *1463 F. Successful farming on 160-acre farms in central Indiana. 5¢.
 1475 F. Soil productivity as affected by crop rotation. 5¢.
 1545 F. Dry-farming methods and practices in wheat growing in the Columbia and Snake River Basins. 5¢.
 1546 F. Systems of livestock farming in the Black Prairie Belt of Alabama and Mississippi. 5¢.
 1553 F. Planning and recording family expenditures. 5¢.
 1562 F. Farm practices under corn-borer conditions. 5¢.
 1564 F. Farm budgeting. 5¢.
 *1565 F. Shall I buy a combine? 5¢.
 1614 F. Business records for poultry keepers. 5¢.
 1662 F. Husker-shredders in corn borer control. 5¢.
 1663 F. Winter legumes for green manure in the Cotton Belt. 5¢.
 1678 F. Safe use and storage of gasoline and kerosene on the farm. 5¢.
 1681 F. Adjusting Corn-Belt farming to meet corn-borer conditions. 5¢.
 1697 F. Using soil-binding plants to reclaim gullies in the South. 5¢.

Leaflets:

- 82 L. Controlling small gullies by bluegrass sod. 5¢.
 85 L. Strip cropping to prevent erosion. 5¢.

Department Bulletins:

- *151 D. Experiments in crop production on fallow land in San Antonio, Tex. 5¢.
 *157 D. Tillage and rotation experiments at Nephi, Utah. 5¢.
 *253 D. Effect of different times of plowing small-grain stubble in eastern Colorado. 5¢.
 *482 D. Farming in bluegrass region: Study of organization and management of 178 farms in central Kentucky. 5¢.
 *504 D. Theory of correlation as applied to farm-survey data on fattening baby beef. 5¢.
 *528 D. Seasonal distribution of farm labor in Chester County, Pa. 10¢.
 *625 D. Cropping systems for moister portion of eastern Washington and Oregon and northern Idaho. 5¢.
 *633 D. Factors of successful farming near Monett, Mo. 5¢.
 *651 D. Farm-management study in Anderson County, S.C. 5¢.
 *653 D. Farm organization in irrigated valleys of southern Arizona. 10¢.
 *677 D. Soils of southern New Jersey and their uses. 40¢.
 *678 D. Influence of city on farming. 5¢.
 *694 D. Study of farm-management problems in Lenawee County, Mich. 10¢.
 *811 D. A system of bookkeeping for grain elevators. 20¢.
 *850 D. Rent contracts in typical counties of the Wheat Belt. 5¢.
 *917 D. Farm practice in growing field crops in three sugar-beet districts of Colorado. 20¢.
 961 D. Standards of labor on the hill farms of Louisiana. 10¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Department Bulletins—Continued.

- *968 D. Buying farms with land-bank loans. 5¢.
- 985 D. System of accounting for cotton ginneries. 10¢.
- *1000 D. Labor and material requirements of field crops. 10¢.
- *1001 D. Relation of land tenure to use of arid grazing lands of Southwestern States. 15¢.
- *1034 D. Farm management and farm organization in Sumter County, Ga. 20¢.
- *1068 D. Farm ownership and tenancy in the black prairie of Texas. 10¢.
- 1070 D. Farm management in Catawba County, N.C. 5¢.
- *1150 D. Accounting records and business methods for livestock shipping associations. 10¢.
- *1236 D. Farming logged-off uplands in western Washington. 10¢.
- *1258 D. Farm organization and management in Clinton County, Ind. A business analysis of 100 farms in Forest and Johnson Townships for 8 years, 1910 and 1913-1919. 10¢.
- *1379 D. Electroculture. 10¢.
- *1458 D. Trend toward a more effective use of land as shown by yield per acre of certain crops. 5¢.

Technical Bulletins:

- 102 T. Types of farming in North Dakota. 15¢.
- 144 T. Irrigated crop rotation in southern Montana. 10¢.
- 172 T. Taxation of farm property. 15¢.
- 244 T. Harvesting small grain, soybeans, and clover in the Corn Belt with combines and binders. 15¢.
- 271 T. Evaporation from free water surfaces. 25¢.
- 287 T. Farm management problems in shifting from sack to bulk handling of grain in the Pacific Northwest. 15¢.
- 288 T. Farm-mortgage credit. 20¢.
- 289 T. Land utilization in Laurel County, Ky. 25¢.
- 303 T. Economic utilization of marginal lands in Nicholas and Webster Counties, W.Va. 15¢.
- *311 T. Adequacy and reliability of crop-yield estimates. 10¢.

Department Circulars:

- *83 DC. Testing farms in the South for efficiency in management. 5¢.
- 183 DC. Seed time and harvest. A graphic summary of seasonal work on farm crops. 5¢.
- 197 DC. The credit association as an agency for rural short-time credit. 5¢.
- *302 DC. Farm management extension, early development, and status in 1922. 5¢.

Miscellaneous Circulars:

- *32 MC. Practical farm economics. Cloth, 40¢.
- *107 MC. Emergency methods for reconstitution of flooded sugar-cane districts in Louisiana. 5¢.

Circulars:

- 78 C. Condition of farmers in a white-farmer area of the cotton piedmont, 1924-26. 10¢.
- 184 C. Methods of crop production at the Colby (Kans.) Branch Experiment Station, 1915-1929. 5¢.
- *188 C. Irrigated crop rotations in western South Dakota. 10¢.
- 193 C. Crop rotation and tillage experiments at the San Antonio (Tex.) Field Station. 10¢.
- 202 C. Agronomic work of the Big Springs (Tex.) Field Station, 1915-29. 5¢.
- 206 C. Agricultural investigations at the U.S. Field Station, Sacaton, Arizona, 1925-30. 10¢.
- 213 C. Summer fallow at Ardmore, S. Dakota. 5¢.

Yearbook Separates:

- 702 Y. Development and localization of truck crops in United States. 5¢.
- *764 Y. Cattle loans and the value to investors. 5¢.
- 915 Y. Farm credit, farm insurance, and farm taxation. 15¢.

Bureau of Plant Industry Bulletins¹:

- *187 A study of cultivation methods and crop rotations for the Great Plains area. 15¢.
- *215 Agriculture in the central part of the semiarid portion of the Great Plains. 5¢.
- *259 What is farm management? 10¢.

Bureau of Plant Industry Circulars¹:

- *64 Agricultural conditions in southern New York. 5¢.

Office of the Secretary Circulars¹:

- 57 The influence of relative area in intertilled and other classes of crops on crop yield. 5¢.

¹ These publications belong to an early series, the studies having been made and the material prepared for issuance prior to 1914.

Publications preceded by an asterisk (*) are obtainable by purchase only.

ALASKA

Department Bulletins:

- *1089 D. Reindeer in Alaska. 25¢.
- 1350 D. Blue fox farming in Alaska. 10¢.
- 1423 D. Progress in reindeer grazing investigations in Alaska. 15¢.

Technical Bulletins:

- 226 T. Distribution and mechanical properties of Alaska woods. 20¢.

Miscellaneous Publications:

- *55 MP. Pocket guide to Alaska trees. 15¢.

Alaska Agricultural Experiment Station Bulletins:

- *4 AB. Production of improved hardy strawberries for Alaska. 10¢.
- *5 AB. Eradication of tuberculosis in cattle at the Kodiak Experiment Station. 5¢.
- *6 AB. Cereal growing in Alaska. 10¢.
- *7 AB. Vegetable gardening in Alaska. 10¢.
- *8 AB. Brief history of cattle breeding in Alaska. 10¢.
- *9 AB. The potato in Alaska. 5¢.
- *10 AB. Oat production in Alaska. 10¢.
- *11 AB. Forage crops in the Matanuska region, Alaska. 5¢.

Alaska Agricultural Experiment Station Circulars:

- *2 AC. Bulb growing in Alaska. 5¢.
- *3 AC. List and analytical index of publications of the Alaska Agricultural Experiment Stations—January 1898, to July 1931. 10¢.
- *4 AC. Field crops for interior Alaska. 5¢.
- *5 AC. Feeding dairy cows in the Matanuska region, Alaska. 5¢.

Alaska Game Commission Circulars:

- *11 AGCC. Regulations relating to game, land fur animals, and birds in Alaska, 1933-34. 5¢.

ALFALFA

(See also Diseases; Insects; Hay; Marketing)

Farmers' Bulletins:

- *1021 F. Alfalfa on Corn Belt farms. 5¢.
- 1229 F. Utilization of alfalfa. 5¢.
- 1283 F. How to grow alfalfa. 5¢.
- 1467 F. Commercial varieties of alfalfa. 5¢.
- 1539 F. High-grade alfalfa hay: Methods of producing, baling, and loading for market. 5¢.
- 1630 F. Irrigation practices in growing alfalfa. 5¢.

Department Bulletins:

- 1418 D. Fertilizer experiments with alfalfa conducted at United States Yuma Field Station, Bard, Calif., 1919 to 1925. 5¢.
- *1424 D. Comparative shrinkage in weight of alfalfa cured with leaves attached and removed. 5¢.

Technical Bulletins:

- *235 T. Quality of alfalfa hay in relation to curing practice. 10¢.

Department Circulars:

- *93 DC. Development of the Peruvian alfalfa industry in United States. 5¢.

ANIMAL BREEDING

(See also Fur-bearing animals; also name of animal)

Farmers' Bulletins:

- *525 F. Raising guinea pigs. 5¢.
- 1167 F. Essentials of animal breeding. 5¢.

Department Bulletins:

- 905 D. Principles of livestock breeding. 10¢.
- 1372 D. Transmitting ability of 23 Holstein-Friesian sires. 5¢.

Technical Bulletins:

- *103 T. The persistence of differentiation among inbred families of guinea pigs. 10¢.
- 222 T. Genetic growth differentiation in guinea pigs. 10¢.
- 279 T. Correlation of hereditary and other factors affecting growth in guinea pigs. 10¢.
- *339 T. Some results of inbreeding grade Guernsey and grade Holstein-Friesian cattle. 15¢.
- *349 T. Analysis of the advanced registry records of 611 daughters of 51 Ayrshire sires. 5¢.

Department Circulars:

- 368 DC. Better cows from better sires; study of cow-testing association records of dams and their daughters. 5¢.

Miscellaneous Publications:

- 34 MP. United States Animal Husbandry Experiment Farm, Beltsville, Md. 10¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

BEES—HONEY

Farmers' Bulletins:

- *447 F. Bees. 5¢.
- *653 F. Honey and its uses in the home. 5¢.
- *695 F. Outdoor wintering of bees. 5¢.
- *961 F. Transferring bees to modern hives. 5¢.
- 975 F. Control of European foulbrood. 5¢.
- *1012 F. Preparation of bees for outdoor wintering. 5¢.
- *1014 F. Wintering bees in cellars. 5¢.
- *1039 F. Commercial comb-honey production. 5¢.
- *1198 F. Swarm control. 5¢.
- *1215 F. Beekeeping in the clover region. 5¢.
- *1216 F. Beekeeping in the buckwheat region. 5¢.
- *1222 F. Beekeeping in the tulip-tree region. 5¢.
- 1713 F. The treatment of American foulbrood. 5¢.

Department Bulletins:

- *804 D. Study of behavior of bees in colonies affected by European foulbrood. 5¢.
- *810 D. European foulbrood. 10¢.
- *1339 D. Effect of weather upon change in weight of colony of bees during honey flow. 10¢.
- *1349 D. Brood-rearing cycle of the honeybee. 10¢.
- *1364 D. Effects on honeybees of spraying fruit trees with arsenicals. 5¢.

Technical Bulletins:

- 149 T. Fungous disease of the honeybee. 15¢.
- *309 T. Development of package-bee colonies. 10¢.

Department Circulars:

- 222 DC. Insulating value of commercial double-walled beehives. 5¢.
- 284 DC. Sterilization of American foulbrood combs. 5¢.
- 287 DC. Occurrence of diseases of adult bees, II. 5¢.
- *334 DC. Bee-louse, *Braula coeca*, in United States. 5¢.

Circulars:

- 24 C. United States grades, color standards, and packing requirements for honey, recommended by Department of Agriculture. 5¢.

Miscellaneous:

- *Color standards for grades of comb honey. Poster, 7 by 17 inches. 5¢.

BERRIES

(See also Diseases: Insects; Marketing)

Farmers' Bulletins:

- 887 F. Raspberry culture. 5¢.
- 901 F. Everbearing strawberries. 5¢.
- *998 F. Culture of Logan blackberry and related varieties. 5¢.
- 1026 F. Strawberry culture, South Atlantic and Gulf Coast regions. 5¢.
- 1027 F. Strawberry culture, western United States. 5¢.
- 1028 F. Strawberry culture, eastern United States. 5¢.
- 1043 F. Strawberry varieties. 5¢.
- 1398 F. Currants and gooseberries: Their culture and relation to white-pine blister rust. 5¢.
- 1399 F. Blackberry growing. 5¢.
- 1400 F. Establishing cranberry fields. 5¢.
- 1401 F. Managing cranberry fields. 5¢.
- 1402 F. Cranberry harvesting and handling. 5¢.
- 1403 F. Dewberry growing. 5¢.

Department Bulletins:

- 274 D. Factors governing successful shipment of red raspberries from Puyallup Valley. 10¢.
- *714 D. Spoilage of cranberries after harvest. 5¢.
- *960 D. Relation of water raking to keeping quality of cranberries. 5¢.
- 974 D. Directions for blueberry culture, 1921. 30¢.

Technical Bulletins:

- 122 T. Development of runners and runner plants in the strawberry. 10¢.
- 180 T. Origin and distribution of the commercial strawberry crop. 25¢.
- *240 T. The chemical eradication of Ribes. 10¢.
- *261 T. Longevity and germination of seeds of Ribes (currants and gooseberries), particularly *R. rotundifolium*, under laboratory and natural conditions. 15¢.

Department Circulars:

- 320 DC. The Van Fleet raspberry, new hybrid variety. 5¢.

Circulars:

- 93 C. The Blakemore strawberry. 10¢.
- 171 C. The Bellmar, Southland, and Redheart strawberries. 5¢.
- 220 C. The Brainerd blackberry. 5¢.
- 223 C. The Glendale gooseberry. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Circulars—Continued.

- *257 C. The Dorsett, Fairfax, and Narcissa strawberries. 5¢.
 *259 C. The Potomac raspberry. 5¢.

BIBLIOGRAPHIES—LISTS OF PUBLICATIONS**Department Bulletins:**

- *1199 D. List of bulletins of agricultural experiment stations in United States from their establishment to the end of 1920, 20¢.
 *1210 D. Summary of literature on bunt, or stinking smut, of wheat. 10¢.
 1314 D. Bibliography relating to soil alkalies. 10¢.
 *1330 D. Abbreviations employed in Experiment Station Record for titles of periodicals. 20¢.

Department Circulars:

- *187 DC. List of serials currently received in library of Department of Agriculture, January 1, 1922. 25¢.

Miscellaneous Circulars:

- 35 MC. Bibliography on marketing of agricultural products. 10¢.
 46 MC. Bibliography of the European corn borer. 10¢.
 97 MC. Cooperation in agriculture: A selected and annotated reading list, with special reference to purchasing, marketing, and credit, including only works printed in English. 15¢.

Miscellaneous Publications:

- 9 MP. List of publications of Department of Agriculture from January, 1901, to December, 1925, compiled by comparison with originals. 25¢.
 *36 MP. A history of agricultural education in the United States. \$1.00.
 48 MP. The Food, Drug, and Insecticide Administration of the United States Department of Agriculture. 10¢.
 60 MP. List of available publications of the United States Department of Agriculture, January 2, 1934.
 62 MP. Bibliography on the relation of clothing to health. 25¢.
 *65 MP. List of bulletins of the agricultural experiment stations for the calendar years 1927-28. 15¢. (Supplement 4 to D.B. 1199.)
 78 MP. An annotated list of literature references on garment sizes and body measurements. 10¢.
 84 MP. A bibliography of the history of agriculture in the United States. 1930. 45¢.
 89 MP. Classified list of projects of the agricultural experiment stations, 1930. 35¢.
 110 MP. Glossary of botanical terms commonly used in range research. 15¢.
 114 MP. The Weather Bureau. 5¢.
 116 MP. Rural standards of living, a selected bibliography. 15¢.
 117 MP. Bibliography of ethylene dichloride. 10¢.
 118 MP. The influence of weather on crops: 1900-1930. A selected and annotated bibliography. 40¢.
 *125 MP. Bibliography relating to farm structures. 10¢.
 *128 MP. List of bulletins of the agricultural experiment stations for the calendar years 1929 and 1930. 15¢.
 133 MP. Research in farm structures. 15¢.
 150 MP. Bibliography on the marketing of agricultural products. 20¢. (Supplement to MC 35.)

Miscellaneous:

- *List and analytical index of publications of the Alaska Agricultural Experiment Stations—January, 1898, to July, 1931. (Alaska Agricultural Experiment Station Circular 3.) 10¢.
 *Index to publications of the Hawaii Agricultural Experiment Station—July 1, 1901 to December 31, 1926. (Hawaii Agricultural Experiment Station Extension Bulletin 10.) 10¢.
 *List and analytical index of publications of the Porto Rico Agricultural Experiment Station. (Porto Rico Experiment Station Circular 21.) 10¢.

BIRDS

(See also Game; Laws)

Farmers' Bulletins:

- 497 F. Game, aquatic, and rapacious birds in relation to man. 5¢.
 506 F. Food of well-known birds. 5¢.
 *513 F. Fifty common birds of farm and orchard. 25¢.
 621 F. Attracting birds in northeastern United States. 5¢.
 630 F. Birds useful to the farmer. 5¢.
 684 F. Squab raising. 5¢.
 755 F. Common birds of southeastern United States. 5¢.
 760 F. Attracting birds in northwestern United States. 5¢.
 844 F. Attracting birds, Middle Atlantic States. 5¢.
 912 F. Attracting birds, East Central States. 5¢.
 1102 F. Crow in relation to agriculture. 5¢.
 *1327 F. Canaries, care and management. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Farmers' Bulletins—Continued.

- *1373 F. Homing pigeons, their training. 5¢.
- 1456 F. Homes for birds. 5¢.
- 1571 F. European starling in United States. 5¢.
- 1612 F. Propagation of aquatic game birds. 5¢.
- 1613 F. Propagation of upland game birds. 5¢.
- 1644 F. Local bird refuges. 5¢.
- 1682 F. Usefulness of birds on the farm. 5¢.

Leaflets:

- *36 L. Gourds for bird houses. 5¢.
- 61 L. English sparrow control. 5¢.

Department Bulletins:

- 128 D. Distribution and migration of North American rails and their allies. 10¢.
- *619 D. Food habits of swallows, family of valuable native birds. 5¢.
- *1165 D. Report on bird censuses in United States, 1916-20. 5¢.
- 1196 D. Food and economic relations of North American grebes. 5¢.
- *1249 D. Food habits of some winter bird visitants. 10¢.
- *1268 D. Returns from banded birds, 1920 to 1923. 10¢.
- 1359 D. Food of American phalaropes, avocets, and stilts. 10¢.

Technical Bulletins:

- *24 T. Magpie in relation to agriculture. 10¢.
- *26 T. Our migrant shorebirds in southern South America. 5¢.
- *32 T. Returns from banded birds, 1923 to 1926. 20¢.
- 49 T. Nematodes of pathological significance found in some economically important birds in North America. 5¢.
- *61 T. Wild birds introduced or transplanted in North America, 10¢.
- 227 T. Developmental stages of some nematodes of Spiruroidea parasitic in poultry and game birds. 15¢.

Circulars:

- *96 C. Game birds suitable for naturalization in the United States. 10¢.
- *118 C. Calculating waterfowl abundance on the basis of banding returns. 5¢.

Miscellaneous Publications:

- 127 MP. Peafowl and their care. 5¢.
- 145 MP. Policies of the Bureau of Biological Survey relative to the control of injurious birds. 5¢.
- *151 MP. Game laws for the season 1932-33. A summary of Federal, State, and Provincial statutes. 5¢.

Miscellaneous:

The following publications belong to an early series, the studies having been made and the material prepared for issuance prior to 1914:

- *Birds of a Maryland farm: A study of economic ornithology. (Bureau of Biological Survey Bulletin 17.) 20¢.
- *Hawks and owls from the standpoint of the farmer. (Bureau of Biological Survey Circular 61.) 5¢.

BROOMCORN**Farmers' Bulletins:**

- 1631 F. Broomcorn growing and handling. 5¢.

Department Bulletins:

- *1019 D. Marketing broomcorn. 10¢.

Technical Bulletins:

- *347 T. An economic study of broomcorn production. 5¢.

Yearbook Separates:

- *1060 Y. Broomcorn harvesting at milk stage produces best brush. 5¢.

BUILDING—BUILDINGS—ENGINEERING—MECHANICS—MACHINERY

(See also Drainage; Irrigation; Rural Sociology)

Farmers' Bulletins:

- 744 F. The preservative treatment of farm timbers. 5¢.
- 847 F. Potato-storage houses. 5¢.
- *927 F. Farm home conveniences. 5¢.
- 1045 F. Laying out fields for tractor plowing. 5¢.
- *1078 F. Harvesting and storing ice on the farm. 5¢.
- *1131 F. Tile-trenching machinery. 5¢.
- 1132 F. Planning the farmstead. 5¢.
- 1214 F. Farm dairy houses. 5¢.
- 1227 F. Sewage and sewerage of farm homes. 5¢.
- 1234 F. Gullies: How to control and reclaim them. 5¢.
- 1279 F. Plain concrete for farm use. 5¢.
- *1319 F. Cotton-dusting machinery. 5¢.
- 1342 F. Dairy-barn construction. 5¢.
- 1350 F. Beef-cattle barns. 5¢.
- 1393 F. Principles of dairy-barn ventilation. 5¢.
- 1426 F. Farm plumbing. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Farmers' Bulletins—Continued.

- 1448 F. Farmstead water supply. 5¢.
- 1452 F. Painting on the farm. 5¢.
- 1460 F. Simple plumbing repairs in the home. 5¢.
- 1480 F. Small concrete construction on the farm. 5¢.
- 1487 F. Practical hog houses. 5¢.
- *1500 F. Rammed earth walls for buildings. 5¢.
- 1525 F. Effective haying equipment and practices for northern Great Plains and intermountain regions. 5¢.
- 1526 F. Clearing land of brush and stumps. 5¢.
- 1554 F. Poultry houses and fixtures. 5¢.
- *1565 F. Shall I buy a combine? 5¢.
- 1572 F. Making cellars dry. 5¢.
- 1589 F. Husker-shredder on eastern Corn-Belt farms. 5¢.
- 1590 F. Fire-protective construction on the farm. 5¢.
- 1608 F. Operation and care of the combined harvester-thresher. 5¢.
- 1615 F. Hay stackers and their use. 5¢.
- 1638 F. Rat-proofing buildings and premises. 5¢.
- 1649 F. Construction of chimneys and fireplaces. 5¢.
- 1658 F. Farm water power. 5¢.
- 1660 F. The use of logs and poles in farm construction. 5¢.
- 1662 F. Husker-shredder in corn-borer control. 5¢.
- 1669 F. Farm terracing. 5¢.
- 1678 F. Safe use and storage of gasoline and kerosene on the farm. 5¢.
- 1690 F. Plowing with moldboard plows. 5¢.
- 1698 F. Heating the farm home. 5¢.
- 1701 F. Corncribs for the Corn Belt. 5¢.
- 1703 F. Reservoirs for farm use. 5¢.
- 1715 F. Methods and costs of husking corn in the field. 5¢.

Leaflets:

- *56 L. Preventing cracks in new wood floors. 5¢.
- 62 L. Why some wood surfaces hold paint longer than others. 5¢.
- 77 L. Bracing farm buildings. 5¢.
- 87 L. Wind-resistant construction for farm buildings. 5¢.
- 97 L. Cross-blocking sugar beets by machine. 5¢.

Department Bulletins:

- *910 D. Experience of eastern farmers with motor trucks. 10¢.
- *931 D. Corn-Belt farmers' experience with motor trucks. 10¢.
- *1202 D. Tractors and horses in winter wheat belt, Oklahoma, Kansas, Nebraska. 10¢.
- *1348 D. An appraisal of power used on farms in United States. 15¢.

Technical Bulletins:

- 70 T. Combined harvester-thresher in the Great Plains. 15¢.
- *187 T. Ventilation of farm barns. 25¢.
- 244 T. Harvesting small grain, soybeans, and clover in the Corn Belt with combines and binders. 15¢.
- 269 T. Economical use of large tile for land drainage. 5¢.
- *337 T. The portable band sawmill and selective logging in the loblolly pine forests of North Carolina. 5¢.
- *358 T. Laboratory and field tests of concrete exposed to the action of sulphate waters. 10¢.

Department Circulars:

- *94 DC. TNT as a blasting explosive. 5¢.
- *191 DC. Use of explosives in blasting stumps. 5¢.
- 212 DC. Manufacture and sale of farm equipment in 1920. 5¢.
- 405 DC. The domestic oil burner. 10¢.

Circulars:

- *61 C. High-pressure gas-compression system. 10¢.
- 128 C. Effectiveness of moisture excluding coatings on wood. 10¢.
- 132 C. Fighting the corn borer with machinery in two-generation area. 15¢.
- 166 C. Suggestions for the improvement of old bank dairy barns. 10¢.
- *254 C. Greenhouse heating. 5¢.
- *285 C. Portable refrigeration chambers for studying cold resistance of plants in the field. 5¢.

Miscellaneous Publications:

- *38 MP. Research in mechanical farm equipment. 10¢.
- 56 MP. Low-cutting devices for harvesting corn. 15¢.
- 125 MP. Bibliography relating to farm structures. 10¢.
- 133 MP. Research in farm structures. 15¢.
- 142 MP. Construction of sled-type corn stalk shavers. 5¢.
- 149 MP. The vertical seed cotton drier. 5¢.
- *157 MP. Power and machinery in agriculture. 5¢.
- *165 MP. The barrier system for control of floods in mountain streams. 5¢.

Yearbook Separates:

- *825 Y. The horsepower problem on the farm. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Miscellaneous:

Plans for various kinds of typical farm structures and structural equipment, and mimeographed papers on certain phases of such construction, may be obtained from the Bureau of Agricultural Engineering, Department of Agriculture, Washington, D.C., upon request stating definitely the character of information desired.

The following publication belongs to an early-series, the studies having been made and the material prepared for issuance prior to 1914.

*Tidal marshes and their reclamation. (Office of Experiment Stations Bulletin 240.) 35¢.

CANNING, DRYING, PICKLING, AND PRESERVING (COMMERCIAL)

Department Bulletins:

- *196 D. Methods followed in commercial canning of foods. 10¢.
- 349 D. Raisin industry. 10¢.
- 956 D. Study of factors affecting temperature changes in the container during canning of fruits and vegetables. 15¢.
- *1265 D. Scalding, precooking, and chilling, as preliminary canning operations. 10¢.
- 1323 D. Citrus pectin. 5¢.
- *1335 D. Commercial dehydration of fruits and vegetables. 10¢.

Technical Bulletins:

- *84 T. Preservation of peaches for use in manufacture of ice cream. 5¢.
- *97 T. Relation of kernel density to table and canning quality in different varieties of maize. 5¢.
- 148 T. The frozen-pack method of preserving berries in the Pacific Northwest. 10¢.
- 193 T. Experiments in processing and storing Deglet Noor dates in California. 15¢.
- 196 T. The canning quality of certain commercially important eastern peaches. 10¢.
- 242 T. Biology of the Indian-meal moth on dried fruits in California. 5¢.

Circulars:

- 35 C. Commercial production of sauerkraut. 10¢.

Yearbook Separates:

- 1145 Y. Canning industry's output grows under food and drug act. 5¢.

CANNING—DRYING—PICKLING—PRESERVING (HOME)

Farmers' Bulletins:

- *900 F. Home-made fruit butters. 5¢.
- *984 F. Farm and home drying of fruits and vegetables. 5¢.
- 1172 F. Farm slaughtering and use of lamb and mutton. 5¢.
- 1186 F. Pork on the farm. Killing, curing, and canning. 5¢.
- 1415 F. Beef on the farm—slaughtering, cutting, curing. 5¢.
- 1438 F. Making fermented pickles. 5¢.
- 1471 F. Canning fruits and vegetables. 5¢.

Department Circulars:

- *254 DC. Home-made apple and citrus pectin extracts and their use in jelly making. 5¢.

Circulars:

- 13 C. Curing and preserving citron. 5¢.

CATTLE: BEEF

(See also Diseases; Insects; Marketing)

Farmers' Bulletins:

- 612 F. Breeds of beef cattle. 5¢.
- 1068 F. Judging beef cattle. 5¢.
- 1135 F. The beef calf, its growth and development. 5¢.
- 1350 F. Beef-cattle barns. 5¢.
- 1395 F. Beef-cattle production in the range area. 5¢.
- 1415 F. Beef on the farm, slaughtering, cutting, curing. 5¢.
- 1549 F. Feeding cattle for beef. 5¢.
- 1584 F. Feed-lot and ranch equipment for beef cattle. 5¢.
- 1592 F. Beef production on the farm. 5¢.
- 1600 F. Dehorning, castrating, branding, and marking beef cattle. 5¢.

Department Bulletins:

- 73 D. Raising and fattening beef calves in Alabama. 5¢.
- *631 D. Five years' calf-feeding work in Alabama and Mississippi. 10¢.
- *761 D. Comparison of concentrates for fattening steers in the South. 5¢.
- *827 D. Cut-over pine lands of the South for beef-cattle production. 15¢.
- 870 D. Effect of winter rations on pasture gains of yearling steers. 5¢.
- *954 D. Wintering and summer fattening of steers in North Carolina. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Department Bulletins—Continued.

- *1251 D. Effect of winter rations on pasture gains of 2-year-old steers. 10¢.
- *1318 D. Steer feeding in the sugarcane belt. 5¢.
- *1333 D. Fattening steers on velvet beans. 10¢.
- *1394 D. Normal growth of range cattle. 5¢.
- *1431 D. Effect of winter rations on gains of calves marketed as 3-year-old steers. 5¢.

Technical Bulletins:

- *23 T. Costs and methods of fattening beef cattle in the Corn Belt, 1919-1923. 20¢.
- 30 T. Fattening steers on dry-land crops of the Southwest. 5¢.
- 192 T. Wintering steers in the north-central Great Plains. 5¢.
- *203 T. Beef production from purebred, grade, and native calves. 5¢.
- 208 T. Beef from calves fed grain before and after weaning. 10¢.
- 217 T. Beef production and quality as affected by grade of steers and feeding grain supplement on grass. 15¢.
- 237 T. Economic factors affecting the beef cattle industry of Virginia. 10¢.

Department Circulars:

- *166 DC. Influence of winter rations on growth of steers on pasture. 5¢.
- 408 DC. Wintering beef cattle in Appalachian region. 5¢.

Miscellaneous Circulars:

- 74 MC. Grading up beef cattle at Sni-A-Bar Farms. 10¢.

Circulars:

- 62 C. The utilization of browse forage as summer range for cattle in southwestern Utah. 10¢.
- 65 C. Steer-feeding experiments in the sugarcane belt. 5¢.

Yearbook Separates:

- 749 Y. Growth of beef-cattle industry in the South. 5¢.
- 874 Y. Our beef supply. 20¢.

Miscellaneous:

- Salting the cattlerange. 5¢.
- *Meat situation in the United States: Part III. Methods and cost of growing beef in the Corn Belt States. 1916. (Department Report 111.) 15¢.

CATTLE: DAIRY

(See also Buildings; Diseases; Insects; Marketing)

Farmers' Bulletins:

- 1412 F. Care and management of dairy bulls. 5¢.
- 1443 F. Dairy cattle breeds. 5¢.
- 1470 F. Care and management of dairy cows. 5¢.
- 1532 F. Dairy-herd improvement through cooperative bull associations. 5¢.
- 1573 F. Legume hays for milk production. 5¢.
- 1604 F. Dairy-herd improvement associations and stories the records tell. 5¢.
- 1626 F. Feeding dairy cows. 5¢.

Leaflets:

- 7 L. Feeding dairy cows in summer. 5¢.
- *10 L. Care of the dairy cow at calving time. 5¢.
- *14 L. Raising the dairy heifer. 5¢.
- 16 L. Purebred dairy sires. 5¢.
- 20 L. Care of the dairy calf. 5¢.

Department Bulletins:

- *945 D. Influence of calcium and phosphorus in the feed on the milk yield of dairy cows. 5¢.
- *1281 D. Relative utilization of energy in milk production and body-increase of dairy cows. 10¢.
- *1352 D. Effect of age and development on butterfat production of register-of-merit Jersey and advanced-register Guernsey cattle. 5¢.
- 1372 D. Transmitting ability of 23 Holstein-Friesian sires. 5¢.

Technical Bulletins:

- 278 T. Relation of the method of watering dairy cows to their water consumption and milk production. 5¢.
- *352 T. Sudan grass as hay, silage, and pasture for dairy cows. 5¢.

Department Circulars:

- *7 DC. Trend of the dairy cattle industry in the United States and other countries. 5¢.
- *371 DC. Use of the camera in studying the growth and development of dairy animals. 10¢.

Miscellaneous Circulars:

- 99 MC. Judging dairy cattle. 10¢.

Circulars:

- 1 C. Testing cows for production every other month. 5¢.
- *3 C. Proved dairy sires. 5¢.
- 6 C. Purebred dairy-sire introduction. 10¢.
- 26 C. Comparison of purebred and grade dairy cows. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Circulars—Continued.

- 114 C. Within the breed the big dairy cows excel. 5¢.
 180 C. The production of dairy cows as affected by frequency and regularity of milking and feeding. 5¢.

CATTLE: MISCELLANEOUS*(See also Diseases; Insects; Marketing)***Farmers' Bulletins:**

- 1066 F. Determining the age of cattle by the teeth. 5¢

Leaflets:

- 51 L. Improving cattle in areas freed of ticks. 5¢.

Department Bulletins:

- *1358 D. Range watering places in Southwest. 15¢.

Technical Bulletins:

- *45 T. A study of ranch organization and methods of range-cattle production in northern Great Plains Region. 20¢.

Miscellaneous Circulars:

- 12 MC. A handbook for better feeding of livestock. 15¢.
 26 MC. The cow tester's handbook. 10¢.

Circulars:

- 62 C. The utilization of browse forage as summer range for cattle in southwestern Utah. 10¢.

Yearbook Separates:

- *764 Y. Cattle loans and the value to investors. 5¢.

CLOVERS*(See also Alfalfa; Grasses; Diseases; Insects)***Farmers' Bulletins:**

- 676 F. Hard clover seed and its treatment in hulling. 5¢.
 693 F. Bur clover. 5¢.
 *1151 F. Alsike clover. 5¢.
 *1339 F. Clover failure. 5¢.
 *1411 F. Crimson clover: Seed production. 5¢.
 1653 F. Sweetclover in Corn Belt farming. 5¢.

Leaflets:

- 23 L. Sweetclover. 5¢.
 93 L. Red-clover seed production in the Intermountain States. 5¢.

Technical Bulletins:

- *380 T. Sweetclover in Great Plains farming. 5¢.

Circulars:

- 210 C. Field tests of imported red-clover seed. 5¢.

COLD STORAGE—REFRIGERATION**Department Bulletins:**

- *17 D. Refrigeration of dressed poultry in transit. 10¢.
 *775 D. Commercial preservation of eggs by cold storage. 10¢.
 *776 D. Cold-storage reports, season 1917-18. 10¢.
 1086 D. Shrinkage of soft pork under commercial conditions. 10¢.
 1133 D. Freezing temperature of some fruits, vegetables, and cut flowers. 5¢.
 1353 D. Efficiency of short-type refrigerator car. 5¢.
 *1368 D. Cold storage of Florida grapefruit. 5¢.
 1398 D. Comparative efficiency of wire-basket bunkers in refrigerator cars. 5¢.

Technical Bulletins:

- 143 T. Frozen-pack method of preserving berries in Pacific Northwest. 10¢.
 193 T. Experiments on the processing and storing of Deglet Noor dates in California. 5¢.

Department Circulars:

- 415 DC. Some effects of freezing on onions. 5¢.

Circulars:

- 73 C. The cold storage of eggs and poultry. 15¢.
 233 C. Effect of cold storage and age of seed on germination and yield of peanuts. 5¢.
 *278 C. The commercial storage of fruits, vegetables, and florists' stocks. 5¢.

Miscellaneous Publications:

- 138 MP. Refrigeration in the handling, processing, and storing of milk and milk products. 10¢.

CONSERVATION**Farmers' Bulletins:**

- 1234 F. Gullies: How to control and reclaim them. 5¢.
 1697 F. Using soil-binding plants to reclaim gullies in the South. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Leaflets:

- *58 L. Making a model to show how forests prevent erosion. 5¢.
- 82 L. Controlling small gullies by bluegrass sod. 5¢.
- 85 L. Strip cropping to prevent erosion. 5¢.

Technical Bulletins:

- 147 T. The habits and economic importance of alligators. 10¢.

Department Circulars:

- 112 DC. Timber depletion and the answer. 5¢.

Circulars:

- 33 C. Soil erosion a national menace. 25¢.
- 63 C. Conservation of wastes from the small-scale slaughter of meat animals. 5¢.

Miscellaneous Publications:

- 51 MP. National wild-life reservations. 5¢.
- 136 MP. Conservation of fertilizer material from minor sources. 5¢.

Yearbook Separates:

- 723 Y. Great Plains waterfowl breeding grounds and their protection. 5¢.
- *836 Y. Conserving our wild animals and birds. 5¢.
- *856 Y. Putting wood waste to work. 5¢.
- 886 Y. Timber: Mine or crop. 15¢.
- *895 Y. Our forage resources. 20¢.

CORN

(See also Diseases; Insects; Marketing; Standards)

Farmers' Bulletins:

- *773 F. Corn growing under droughty conditions. 5¢.
- *915 F. How to reduce weevil waste in southern corn. 5¢.
- 1029 F. Conserving corn from weevils in the Gulf Coast States. 5¢.
- 1149 F. Growing corn in the Southeastern States. 5¢.
- 1175 F. Better seed corn. 5¢.
- 1562 F. Farm practices under corn-borer conditions. 5¢.
- 1589 F. Husker-shredder on eastern Corn-Belt farms. 5¢.
- 1634 F. Growing sugar corn for the cannery. 5¢.
- 1662 F. Husker-shredder in corn-borer control. 5¢.
- 1679 F. Pop corn. 5¢.
- 1681 F. Adjusting Corn-Belt farming to meet corn-borer conditions. 5¢.
- 1701 F. Corncribs for the Corn Belt. 5¢.
- 1714 F. Corn culture. 5¢.
- 1715 F. Methods and costs of husking corn in the field. 5¢.

Department Bulletins:

- *48 D. The shrinkage of shelled corn while in cars in transit. 5¢.
- *307 D. Tests of corn varieties on the Great Plains. 5¢.
- *754 D. Inheritance of waxy endosperm in maize. 15¢.
- *764 D. Factors influencing the carrying qualities of American export corn. 20¢.
- *925 D. A brachytic variation in maize. 20¢.
- *971 D. Inheritance of ramose inflorescence in maize. 20¢.
- *1011 D. Effects of mutilating the seeds on the growth and productiveness of corn. 5¢.
- *1062 D. Relation of the character of the endosperm to the susceptibility of dent corn to root rotting. 5¢.
- *1157 D. Influence of spacing on productivity in single-ear and prolific types of corn. 5¢.
- *1209 D. Effects of selection on yield of a cross between varieties of corn. 5¢.
- *1321 D. A statistical study of the relation between seed-ear characters and productiveness in corn. 5¢.
- 1468 D. Variability in the linkage of two seed characters of maize. 10¢.

Technical Bulletins:

- *97 T. Relation of kernel density to table and canning quality in different varieties of maize. 5¢.
- *260 T. Results of seed-treatment experiments with yellow dent corn. 20¢.
- 267 T. Experiments on hybrid vigor and convergent improvement in corn. 10¢.
- 292 T. Inheritance of colored scutellums in maize. 10¢.
- 312 T. Response of sweet corn to varying temperatures from time of planting to canning maturity. 5¢.

Department Circulars:

- *333 DC. Handling soft-corn crops. 5¢.

Circulars:

- 34 C. Chemical-dust seed treatments for dent corn. 5¢.
- 268 C. Golden Cross Bantam sweet corn. 5¢.

Miscellaneous Publications:

- 56 MP. Low-cutting devices for harvesting corn. 15¢.
- 142 MP. Construction of sled-type cornstalk shavers. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

COST OF PRODUCTION STUDIES

*(See also under name of subject)***Farmers' Bulletins:**

- *1298 F. Cost of using horses on Corn Belt farms. 5¢.
 1715 F. Methods and costs of husking corn in the field. 5¢.

Department Bulletins:

- 858 D. Requirements and cost of producing market milk in north-western Indiana. 5¢.
 *919 D. Unit requirements for producing milk in western Washington. 5¢.
 923 D. Unit requirements for producing market milk in Vermont. 5¢.
 *955 D. Unit requirements for producing market milk in southeastern Louisiana. 5¢.
 *972 D. Unit requirements for producing market milk in eastern Nebraska. 5¢.
 *997 D. Cost and utilization of power on farms where tractors are owned: 286 farms—Ohio, Indiana, Illinois—1920. 10¢.
 1101 D. Unit requirements for producing market milk in Delaware. 5¢.
 *1198 D. Cost of producing winter wheat in central Great Plains of the United States. 10¢.
 *1381 D. Cost of producing hogs in Iowa and Illinois, 1921-22. 20¢.
 *1430 D. Financial limitation in employment of forest cover in protecting reservoirs. 15¢.
 1446 D. Cost of producing winter wheat and incomes from wheat farming in Sherman County, Oreg. 10¢.
 1447 D. Cost of using horses, tractors, and combines on wheat farms in Sherman County, Oreg. 10¢.
 *1454 D. Factors in the cost of producing beef in the Flint Hills section of Kansas. 5¢.
 *1455 D. Incomes from farming and cost of apple production in the Shenandoah Valley and Frederick County, Va. 10¢.

Technical Bulletins:

- *23 T. Costs and methods of fattening beef cattle in the Corn Belt, 1919-23. 20¢.
 153 T. Effect of milk-plant arrangement and methods of operation on labor requirements. 15¢.
 *384 T. Utilization and cost of power on Corn Belt farms. 5¢.

Department Circulars:

- 307 DC. A method of testing farm-management and cost of production data for validity of conclusions. 5¢.

Yearbook Separates:

- *876 Y. Cost data for farm products. 10¢.
 925 Y. Farm management and costs, statistics. 10¢.

COTTON—COTTONSEED

*(See also Diseases; Insects; Marketing; Standards; Experiment Station Work)***Farmers' Bulletins:**

- 501 F. Cotton improvement under weevil conditions. 5¢.
 *1319 F. Cotton dusting machinery. 5¢.
 1384 F. Community cotton production. 5¢.
 *1432 F. Culture of Pima and upland cotton in Arizona. 5¢.
 *1465 F. Cotton ginning. 5¢.
 1661 F. Farm study of the cotton plant. 5¢.
 1686 F. Common errors in cotton production. 5¢.

Department Bulletins:

- *146 D. Economic conditions in sea-island cotton industry. 5¢.
 *644 D. Lint percentage and lint index of cotton and methods of determination. 5¢.
 *948 D. Composition of cottonseed. 25¢.
 1111 D. One-variety cotton communities. 10¢.
 *1134 D. Self-fertilization and cross-fertilization in Pima cotton. 10¢.
 *1153 D. Boll-weevil cotton in Texas. 5¢.
 *1164 D. Segregation and correlation of characters in an upland-Egyptian cotton hybrid. 25¢.
 *1184 D. Utilization of Pima cotton. 15¢.
 1204 D. Dusting cotton from airplanes. 10¢.
 1219 D. Delinting and recleaning cottonseed for planting purposes. 10¢.
 1319 D. Ginning Pima cotton in Arizona. 10¢.
 *1320 D. Behavior of cotton planted at different dates in weevil-control experiments in Texas and South Carolina. 15¢.
 1365 D. Development of flowers and bolls of Pima and Acala cotton in relation to branching. 5¢.
 1438 D. Weather damage to cotton. 5¢.
 1467 D. Community production of Acala cotton in the Coachella Valley of California. 15¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Technical Bulletins:

- 13 T. Practices and costs of cotton-gin operation in north-central Texas, 1924-25. 15¢.
- 50 T. Factors affecting price of cotton. 15¢.
- *72 T. Irrigation of cotton. 10¢.
- *91 T. Leaf temperatures of cotton and their relation to transpiration, varietal differences, and yields. 10¢.
- 277 T. The shedding of 4-lock and 5-lock bolls in upland cotton. 5¢.
- 302 T. Cotton improvement through type selection with special reference to the Acala variety. 30¢.
- *392 T. Effects of stress conditions on the cotton plant in Arizona. 5¢.
- *396 T. Neps and similar imperfections in cotton. 5¢.

Department Circulars:

- *175 DC. Linters. 5¢.
- *200 DC. Improvements in cotton production. 5¢.
- 205 DC. Cotton-seed mixing increased by modern gin equipment. 5¢.
- *381 DC. Uniform-depth press-wheel cotton planter attachment. 5¢.
- 390 DC. Study of off-type plants of Acala cotton. 5¢.
- 414 DC. Sea-island and Meade cotton in the Southeastern States. 5¢.

Miscellaneous Circulars:

- *43 MC. Lessons on cotton for elementary schools. 10¢.

Circulars:

- 2 C. Acala cotton, a superior upland variety from southern Mexico. 20¢.
- *47 C. Standardized cotton tare in Egypt. 5¢.
- 192 C. Progress report on mechanical application of fertilizers to cotton in South Carolina, 1930. 10¢.
- 200 C. Irrigation and related cultural practices with cotton in the Salt River Valley of Arizona. 10¢.
- *256 C. Outlines of cotton culture in the San Joaquin Valley of California. 5¢.
- *258 C. Farmer opinions and other factors influencing cotton production and acreage adjustments in the South. 5¢.
- *262 C. Root development of cotton plants in the San Joaquin Valley of California. 5¢.
- *264 C. Mechanical application of fertilizers to cotton in South Carolina, 1931. 5¢.
- *267 C. Budding and grafting trials with cotton and related plants. 5¢.
- *286 C. Community production and distribution of cotton planting seed in a one-variety cotton community. 5¢.
- *293 C. A pioneer one-variety cotton community in Collin County, Texas. 5¢.

Miscellaneous Publications:

- 35 MP. Cotton or weevils. 10¢.
- 126 MP. Fertilizers for cotton soils. 5¢.
- 149 MP. The vertical seed-cotton drier. 5¢.

Miscellaneous:

- The following publication belongs to an early series, the studies having been made and the material prepared for issuance prior to 1914:
- *Handi cotton in Egypt. (Bureau of Plant Industry Bulletin 210.) 15¢.

DAIRYING—DAIRY PRODUCTS

(See also Dairy Cattle; Feeds; Marketing; Experiment Station Work)

Farmers' Bulletins:

- 602 F. Production of clean milk. 5¢.
- 876 F. Making butter on the farm. 5¢.
- 960 F. Neufchatel and cream cheese, farm manufacture and use. 5¢.
- 976 F. Cooling milk and cream on the farm. 5¢.
- 1191 F. Making American cheese on farm. 5¢.
- 1214 F. Farm and dairy houses. 5¢.
- *1272 F. Renting dairy farms. 5¢.
- 1315 F. Cleaning milking machines. 5¢.
- 1342 F. Dairy-barn construction. 5¢.
- 1451 F. Making and using cottage cheese in the home. 5¢.
- 1610 F. Dairy farming for beginners. 5¢.
- 1675 F. Care of milk utensils on the farm. 5¢.

Department Bulletins:

- 319 D. Fermented milks. 5¢.
- 342 D. Present status of pasteurization of milk. 10¢.
- 608 D. Varieties of cheese: Descriptions and analyses. 15¢.
- *661 D. Manufacture of casein from buttermilk or skim milk. 5¢.
- *744 D. Cooling milk and storing and shipping it at low temperatures. 10¢.
- 747 D. Economical use of fuel in milk plants and creameries. 10¢.
- *919 D. Unit requirement for producing milk in western Washington. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Department Bulletins—Continued.

- 923 D. Unit requirements for producing market milk in Vermont. 5¢.
 *940 D. Sporogenes test as an index of the contamination of milk. 15¢.
 *955 D. Unit requirements for producing market milk in southeastern Louisiana. 5¢.
 *972 D. Unit requirements for producing market milk in eastern Nebraska. 5¢.
 1075 D. Whipping quality of cream. 5¢.
 1095 D. Producers' cooperative milk-distributing plants. 10¢.
 1097 D. Effect of silage on flavor and odor of milk. 5¢.
 1101 D. Unit requirements for producing market milk in Delaware. 5¢.
 1123 D. Proportioning the ingredients for ice cream and other frozen products by the balance method. 5¢.
 *1171 D. Manufacture of Camembert cheese. 5¢.
 1208 D. Effect of feeding turnips on flavor and odor of milk. 5¢.
 *1297 D. Effect of feeding cabbage and potatoes on flavor and odor of milk. 5¢.
 1326 D. Effect of garlic on flavor and odor of milk. 5¢.
 *1342 D. Effect of feeding green rye and green cowpeas on flavor and odor of milk. 5¢.
 1344 D. Effect of various factors on creaming ability of market milk. 5¢.

Leaflets:

- 3 L. Improved sanitation in milk production. 5¢.
 9 L. Making and storing farm butter for winter use. 5¢.
 19 L. Improving dairy herds. 5¢.
 20 L. Care of the dairy calf. 5¢.
 25 L. Preventing feed flavors and odors in milk. 5¢.

Technical Bulletins:

- 18 T. Comparison of temperature and bacterial count of milk and foam during certain stages of pasteurization process. 5¢.
 116 T. Dairy work at the Huntley Field Station, Huntley, Mont., 1918-1927. 15¢.
 153 T. Effect of milk-plant arrangement and methods of operation on labor requirements. 15¢.
 *159 T. Keeping quality of butter made from cream of various acidities. 5¢.
 243 T. Transporting and handling milk in tanks. 10¢.
 249 T. Some factors affecting the viscosity of cream. 25¢.
 278 T. Relation of the method of watering dairy cows to their water consumption and milk production. 5¢.
 280 T. Effect of plant arrangement, equipment, and method of operation in relation to breakage of bottles in milk plants. 10¢.
 321 T. Reproduction and health records of the Beltsville herd of the Bureau of Dairy Industry. 5¢.
 *349 T. Analysis of the advanced registry records of 611 daughters of 51 Ayrshire sires. 5¢.

Department Circulars:

- 70 DC. Trend of the butter industry in the United States and other countries. 5¢.
 *71 DC. Trend of the cheese industry in the United States and other countries. 5¢.
 129 DC. Milk for the family. 5¢.
 *139 DC. The Government exhibit at the 1920 National Dairy Show. 5¢.
 *276 DC. Inspection of milk supplies. 10¢.
 384 DC. How to conduct milk and cream contests. 5¢.

Circulars:

- *12 C. Dairy work at Woodward Field Station, Woodward, Okla., 1921-26. 10¢.
 16 C. Some economic aspects of marketing of milk and cream in New England. 20¢.
 99 C. Equipment for city milk plants. 5¢.
 108 C. Foaming of milk and cream. 5¢.
 155 C. The ice well for the dairy farm. 5¢.
 166 C. Suggestions for the improvement of old bank dairy barns. 10¢.
 *179 C. The effect of heat treatment upon the quality of dry skim milk and condensed skim milk for ice cream. 5¢.
 *199 C. Cream-standardization tables. 5¢.
 214 C. Small plants for pasteurizing milk. 5¢.
 222 C. Bacterial counts of milk as affected by some milk-plant practices. 5¢.
 228 C. Construction and arrangement of city milk plants. 5¢.
 *260 C. Operation and management of milk plants. 5¢.
 *279 C. Methods for manufacturing acid-precipitated casein from skim milk. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Circulars—Continued.

- *294 C. Practical pointers on making creamery butter in the South. 5¢.

Miscellaneous Publications:

- 37 MP. Essentials for the successful operation of a local creamery. 5¢.
 42 MP. Points to consider in establishing a cheese factory. 5¢.
 119 MP. The manufacture of low-acid rennet-type cottage cheese. 5¢.
 138 MP. Refrigeration in the handling, processing, and storing of milk and milk products. 10¢.

- *161 MP. Testing milk and cream. 5¢.

Yearbook Separates:

- *707 Y. An experiment in community dairying. 5¢.
 737 Y. Cheesemaking brings prosperity to farmers of southern mountains. 5¢.
 744 Y. How the dairy cow brought prosperity in the wake of the boll weevil. 5¢.

Miscellaneous:

- *Proceedings of the World's Dairy Congress. 2 vols. clo. 1923. \$2.50.

DISEASES: ANIMAL—POULTRY**Farmers' Bulletins:**

- 449 F. Rabies or hydrophobia. 5¢.
 666 F. Foot-and-mouth disease. 5¢.
 713 F. Sheep scab. 5¢.
 781 F. Tuberculosis of hogs. 5¢.
 784 F. Anthrax or charbon. 5¢.
 834 F. Hog cholera: Prevention and treatment. 5¢.
 1017 F. Cattle scab and methods of control and eradication. 5¢.
 1018 F. Hemorrhagic septicemia, stockyards fever, swine plague, fowl cholera, etc. 5¢.
 1054 F. Loco-weed disease. 5¢.
 1069 F. Tuberculosis in livestock. Detection, control, and eradication. 5¢.
 1085 F. Hog lice and hog mange. Methods of control and eradication. 5¢.
 1146 F. Dourine of horses. 5¢.
 1155 F. Diseases of sheep, infectious and noninfectious. 5¢.
 1200 F. Tuberculosis of fowls. 5¢.
 1244 F. Diseases, ailments, and abnormal conditions of swine. 5¢.
 1330 F. Parasites and parasitic diseases of sheep. 5¢.
 1355 F. Blackleg, its nature, cause, and prevention. 5¢.
 1422 F. Udder diseases of dairy cows. 5¢.
 1536 F. Infectious abortion of cattle. 5¢.
 1593 F. Trembles (milk sickness). 5¢.
 1596 F. Cattle grubs or heel flies with suggestions for their control. 5¢.
 *1625 F. Tick fever. 5¢.
 1652 F. Diseases and parasites of poultry. 10¢.
 1704 F. Bang's disease (infectious abortion). 5¢.

Leaflets:

- *34 L. Trichinosis: A disease caused by eating raw pork. 5¢.
 75 L. Warts on cattle. 5¢. ;
 89 L. Controlling stomach worms in sheep and lambs. 5¢.

Department Bulletins:

- *166 D. Ophthalmic mallein for diagnosis of glanders. 5¢.
 662 D. Vesicular stomatitis of horses and cattle. 5¢.
 *674 D. Hemorrhagic septicemia. 5¢.
 767 D. Oak-leaf poisoning of domestic animals. 10¢.
 *1369 D. Cattle grubs or ox warbles, their biologies and suggestions for control. 25¢.
 1449 D. Tumors of domestic animals. 10¢.

Technical Bulletins:

- 76 T. Report of Foot-and-Mouth Disease Commission of the United States Department of Agriculture. 25¢.

Department Circulars:

- *54 DC. Tuberculosis eradication under accredited-herd plan; Herd list 2, List of herds officially accredited as free from tuberculosis and of herds that have passed successfully one test with view to certification. Revised to Apr. 1, 1919. 10¢.
 142 DC. Tuberculosis eradication under the accredited-herd plan. Herd list 3. 10¢.
 *143 DC. Tuberculosis eradication under the accredited-herd plan. Supplement 1 to Herd list 3. 10¢.
 249 DC. Tuberculin testing of livestock. 10¢.
 322 DC. Mycotic stomatitis of cattle. 5¢.
 338 DC. Parasites and parasitic diseases of dogs. 10¢.
 400 DC. Foot-and-mouth disease, with special reference to outbreaks in California, 1924, and Texas, 1924 and 1925. 15¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Circulars:

- 11 C. Comparative value of types of antihog-cholera serum. 5¢.
- *32 C. Regional lymph glands of food animals. 10¢.
- 104 C. Johne's disease (paratuberculosis) of livestock. 5¢.
- 126 C. Pathological conditions ascribed to nematodes in poultry. 5¢.
- *148 C. Parasites and parasitic diseases of horses. 5¢.
- 154 C. Anaplasmosis in cattle. 5¢.

Miscellaneous Publications:

- 25 MP. Calendar of livestock parasites. 5¢.
- 59 MP. Reliability of the tuberculin test. 5¢.
- *66 MP. Economic benefits of eradicating tuberculosis from livestock. 10¢.
- *68 MP. The 1929 outbreak of foot-and-mouth disease in southern California. 5¢.
- *163 MP. The 1932 outbreak of foot-and-mouth disease in southern California. 5¢.

Yearbook Separates:

- *783 Y. Some results of Federal quarantine against foreign livestock diseases. 5¢.
- 798 Y. Practical points in hog cholera control. 5¢.
- *802 Y. Progress in eradicating contagious animal diseases. 5¢.

Miscellaneous:

- *Special report on diseases of the horse. 1924. \$1.
- *Special report on diseases of cattle. 1924. \$1.

NOTE.—See also posters on diseases of animals listed under Agricultural and Visual Education.

Bureau of Animal Industry Bulletins:¹

- *136 The diagnosis of glanders by complement fixation. 15¢.

Bureau of Animal Industry Circulars:¹

- *68 Diseases of the stomach and bowels of cattle. 5¢.
- *96 Actinomyces, or lumpy jaw. 5¢.
- *141 Foot-and-mouth disease. 5¢.

Bureau of Plant Industry Bulletin:¹

- 246 The relation of barium to the loco-weed disease. 10¢.

DISEASES: BERRIES—FRUITS—NUTS**Farmers' Bulletins:**

- 938 F. Apple bitter-rot and its control. 5¢.
- 1053 F. Control of cherry leaf-spot. 5¢.
- 1120 F. Control of apple powdery mildew. 5¢.
- 1160 F. Diseases of apples in storage. 5¢.
- 1380 F. Apple scald and its control. 5¢.
- 1458 F. Strawberry diseases. 5¢.
- 1478 F. Apple scab. 5¢.
- 1479 F. Apple blotch. 5¢.
- 1488 F. Diseases of raspberries and blackberries. 5¢.
- 1527 F. Peach brown rot and scab. 5¢.
- 1672 F. Diseases of pecans in the Southern States. 5¢.

Department Bulletins:

- *368 D. Brown-rot of prunes and cherries in Pacific Northwest. 5¢.
- *444 D. False blossom of the cultivated cranberry. 5¢.
- *684 D. The sources of apple bitter-rot infections. 10¢.
- *1033 D. Pecan rosette: Its histology, cytology, and relation to other chlorotic diseases. 25¢.
- *1102 D. Kernel-spot of the pecan and its cause. 5¢.
- *1104 D. Internal browning of the yellow New Town apple. 10¢.
- *1118 D. Citrus scab: Its cause and control. 25¢.
- *1252 D. Prune and cherry brown-rot investigations in Pacific Northwest. 10¢.
- *1253 D. Diseases of apples on the market. 5¢.
- *1378 D. Relation of soil conditions and orchard management to the rosette of pecan trees. 10¢.
- *1434 D. Cranberry disease investigations on the Pacific Coast. 5¢.
- *1474 D. Citrus melanose and its control. 20¢.
- *1482 D. Experiments on the control of the plum curculio, brown rot, and scab, attacking the peach in Georgia. 5¢.

Technical Bulletins:

- 189 T. Experiments on the control of tomato yellows. 10¢.
- 253 T. Petroleum oils and oil emulsions as insecticides, and their use against the San Jose scale on peach trees in the South. 10¢.
- *258 T. Fungous diseases of the cultivated cranberry. 25¢.
- 273 T. Bacterial spot disease of the peach and other stone fruits. 20¢.
- 318 T. Effect of solid and gaseous carbon dioxide upon transit diseases of certain fruits and vegetables. 10¢.
- *328 T. Peach brown rot. 10¢.

¹ These publications belong to an early series, the studies having been made and the material prepared for issuance prior to 1914.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Department Circulars:

- *215 DC. Commercial control of citrus scab. 5¢.
- 217 DC. Anthracnose of muskmelons. 5¢.
- 219 DC. Phoma rot of tomatoes. 5¢.
- 227 DC. Eastern blue-stem of the black raspberry. 5¢.
- 259 DC. Commercial control of citrus melanose. 5¢.
- *293 DC. Commercial control of citrus stem-end rot. 5¢.
- *309 DC. Spraying strawberries for the control of fruit rots. 5¢.
- 376 DC. A method for the control of crown gall in the apple nursery. 5¢.
- 386 DC. Commercial control of pecan scab. 5¢.
- *396 DC. The control of apple scald with shredded oiled paper. 5¢.
- 402 DC. Diseases of strawberries on the market. 5¢.
- *412 DC. Dusting with monohydrated copper sulphate and lime for control of pecan scab. 5¢.

Circulars:

- *29 C. Bacterial canker of tomatoes. 5¢.
- 147 C. The spread of cranberry false blossom in the United States. 5¢.
- 169 C. Tomato late-blight rot, a serious transit and market disease. 5¢.
- *174 C. Field observations on strawberry dwarf. 5¢.
- 177 C. Control of Botrytis rot (gray mold rot) of pears with chemically treated wrappers. 5¢.
- *219 C. Market diseases of strawberries from the Southeastern States, 1926-30. 5¢.
- 234 C. Black pit of the pecan and some insects causing it. 5¢.
- *253 C. Spoilage of stone fruits on the market. 5¢.
- *282 C. Three bacterial spots of tomato fruit. 5¢.

Miscellaneous Publications:

- *13 MP. Yellows, serious disease of tomatoes. 5¢.
- 121 MP. Market diseases of fruits and vegetables: Tomatoes, peppers, and eggplants. 20¢.

Miscellaneous:

NOTE.—See also posters on diseases of fruits listed under Agricultural and Visual Education.

Bureau of Plant Industry Bulletins:¹

- *100 Miscellaneous papers: Part I. Cranberry spraying experiments in 1905. 5¢.
- *183 Field studies of the crown-gall of the grape. 10¢.

DISEASES: FIBER—FORAGE—GRAIN CROPS**Farmers' Bulletins:**

- *1124 F. The brown-spot of corn with suggestions for its control. 5¢.
- *1212 F. Straighthead of rice and its control. 5¢.
- *1414 F. The rosette disease of wheat and its control. 5¢.
- 1544 F. Common barberry and black stem rust. 5¢.
- 1599 F. Scab of wheat and barley and its control. 5¢.
- 1607 F. Nematode disease of wheat and rye. 5¢.
- 1711 F. Wheat smuts and their control. 5¢.

Leaflets:

- 98 L. Red-clover failure in relation to anthracnose in the southern part of the Clover Belt. 5¢.

Department Bulletins:

- *734 D. Nematode galls as a factor in the marketing and milling of wheat. 5¢.
- *829 D. Mosaic diseases of sugar cane and other grasses. 10¢.
- *842 D. The nematode disease of wheat caused by *Tylenchus tritici*. 20¢.
- 1116 D. Seedling blight and stack-burn of rice and the hot-water seed treatment. 10¢.
- *1120 D. Investigations of heat canker of flax. 10¢.
- *1137 D. Symptoms of wheat rosette compared with those produced by certain insects. 5¢.
- *1210 D. Summary of literature on bunt, or stinking smut, of wheat. 10¢.
- *1239 D. Studies in the physiology and control of bunt, or stinking smut, of wheat. 10¢.
- *1275 D. Varietal susceptibility of oats to loose and covered smuts. 10¢.
- *1284 D. Sorghum smuts and varietal resistance in sorghums. 15¢.
- *1347 D. Foot-rot diseases of wheat in America. 10¢.
- *1361 D. A mosaic disease of winter wheat and winter rye. 5¢.
- *1383 D. Single-bath hot-water and steam treatments of seed wheat for control of loose smuts. 5¢.
- 1484 D. Factors influencing the severity of the crazy-top disorder of cotton. 15¢.

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Publications preceded by an asterisk (*) are obtainable by purchase only.

Technical Bulletins:

- *10 T. The productiveness of corn as influenced by the mosaic disease. 5¢.
- 28 T. Clover anthracnose caused by *Colletotrichum trifolii*. 15¢.
- *120 T. Relation of husk covering to smut of corn ears. 5¢.
- 207 T. Seed treatment for controlling covered smut of barley. 5¢.
- 266 T. Morphologic and physiologic studies on stem-rust resistance in cereals. 15¢.
- 293 T. Factors affecting the development of loose smut in barley and its control by dust fungicides. 5¢.
- 295 T. Susceptibility of barley to leaf rust (*Puccinia anomala*) and to powdery mildew (*Erysiphe graminis hordei*). 5¢.
- 300 T. Susceptibility and resistance of Berberis and related genera to *Puccinia graminis*. 10¢.
- 313 T. Studies on physiologic specialization in *Puccinia triticina*. 10¢.
- 314 T. Factors affecting the development of the aecial stage of *Puccinia graminis*. 10¢.
- *362 T. Bacterial wilt of corn. 5¢.
- *385 T. Inheritance of stem-rust reaction and correlation of characters in Pentad, Nodak, and Akrona durum-wheat crosses. 5¢.

Circulars:

- *39 C. Bacterial wilt and winter injury of alfalfa. 5¢.
- *67 C. A prolonged saprophytic stage of the cotton root-rot fungus. 5¢.
- 81 C. Removing smut from the Pacific Northwest wheat by washing. 5¢.
- 85 C. Studies of cotton root rot at Greenville, Texas. 10¢.
- 173 C. Cycles of growth in cotton root rot at Greenville, Texas. 5¢.
- 182 C. Stinking smut (bunt) in wheat and how to prevent it. 10¢.
- 211 C. Verticillium wilt (Hadromycosis) of cotton in the San Joaquin Valley of California. 5¢.

Miscellaneous Publications:

- 21 MP. Formaldehyde seed treatment for oat smuts. 5¢.
- 131 MP. A dangerous neighbor (common barberry) for wheat, oats, barley, and rye. 5¢.

Miscellaneous:

NOTE.—See also posters on diseases of grains listed under Agricultural and Visual Education.

DISEASES: FLOWERS—VEGETABLES—MISCELLANEOUS**Farmers' Bulletins:**

- 736 F. Ginseng diseases and their control. 5¢.
- 1059 F. Sweet-potato diseases. 5¢.
- 1060 F. Onion diseases and their control. 5¢.
- 1345 F. Root-knot, its cause and control. 5¢.
- 1367 F. Control of potato-tuber diseases. 5¢.
- 1439 F. Diseases of cabbage and related plants. 5¢.
- 1547 F. Rose diseases: Their cause and control. 5¢.
- 1692 F. Bean diseases and their control. 5¢.

Department Bulletins:

- 577 D. Experiments in the control of potato leak. 5¢.
- *829 D. Mosaic disease of sugar cane and other grasses. 10¢.
- *879 D. Mosaic disease of cucurbits. 15¢.
- *1029 D. Seed treatment and rainfall in relation to the control of cabbage blackleg. 10¢.
- 1156 D. Investigations of potato wart. 10¢.
- 1162 D. Rôle of the genus *Rhamnus* in the dissemination of crown rust. 5¢.
- *1256 D. Tobacco diseases and their control. 25¢.
- *1286 D. South American leaf disease of Para rubber. 10¢.
- 1380 D. A pathological survey of the Para rubber tree (*Ilexa brasiliensis*) in the Amazon Valley. 50¢.
- 1410 D. Brown root rot of tobacco and other plants. 10¢.
- *1417 D. Ozonium root rot. 15¢.
- 1461 D. Control of cucumber mosaic by eradication of wild host plants. 10¢.
- 1484 D. Factors influencing severity of crazy-top disorder of cotton. 15¢.

Technical Bulletins:

- *56 T. Factors of spread and repression in potato wart. 5¢.
- *62 T. Factors in the inception and development of Fusarium rot in stored potatoes. 15¢.
- 88 T. Tobacco cutworms. 35¢.
- *181 T. Clubroot of crucifers. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Technical Bulletins—Continued.

- *186 T. The bacterial blight of beans caused by *Bacterium phaseoli*. 10¢.
- 261 T. Longevity and germination of seeds of *Ribes* (currants and gooseberries), particularly *R. rotundifolium*, under laboratory and natural conditions. 15¢.
- 318 T. Effect of solid and gaseous carbon dioxide upon transit diseases of certain fruits and vegetables. 10¢.
- *341 T. Effect of certain environmental factors on stripe disease of barley and the control of the disease by seed treatment. 5¢.
- *360 T. Curly-top resistance in sugar beets and tests of the resistant variety U.S. No. 1. 10¢.

Department Circulars:

- *32 DC. Potato wart—A dangerous new disease. 5¢.
- 214 DC. Fusarium tuber rot of potatoes. 5¢.
- *220 DC. Late-blight tuber rot of the potato. 5¢.
- 234 DC. Bacterial spot of cucumbers. 5¢.
- 281 DC. Potato brown-rot. 5¢.
- 321 DC. Control of cucumber mosaic in the greenhouse. 5¢.
- *388 DC. Resistance in sugar beets to curly-top. 5¢.
- 392 DC. Rare cases of mosaic disease in highly resistant varieties of sugarcane. 5¢.

Circulars:

- 115 C. The sugar-beet leaf-spot disease and its control by direct measures. 5¢.
- 135 C. Blemishes and discolorations of market onions. 5¢.
- *263 C. Downy mildew of tobacco. 5¢.
- *271 C. Virus and viruslike diseases of the potato in the Northwest and their control. 5¢.

Miscellaneous Publications:

- *13 MP. Yellows, serious disease of tomatoes. 5¢.
- *94 MP. Seed treatment reduces loss from plant diseases. 5¢.
- 98 MP. Market diseases of fruit and vegetables: Potatoes. 30¢.
- 121 MP. Market disease of fruits and vegetables: Tomatoes, peppers, and eggplants. 20¢.

Yearbook Separates:

- *796 Y. Black stem rust and barberry. 5¢.

Miscellaneous:

NOTE.—See also posters on diseases of vegetables listed under Agricultural and Visual Education.

Bureau of Plant Industry Bulletins:¹

- *55 The dry rot of potatoes due to *Fusarium oxysporum*. 10¢.
- *213 Crown-gall of plants: Its cause and remedy. 40¢.
- *217 Root-knot and its control. 5¢.
- *277 A biochemical study of the curly-top of sugar beets. 5¢.

DISEASES: FOREST AND SHADE TREES**Farmers' Bulletins:**

- 1641 F. Chestnut blight. 5¢.

Department Bulletins:

- *317 D. Larch mistletoe. Some economic consideration of its injurious effects. 5¢.
- *380 D. *Endothia parasitica* and related species. 35¢.
- *722 D. Study of heart-rot in western hemlock. 10¢.
- *1112 D. Western yellow pine mistletoe. Effect on growth and suggestions for control. 15¢.
- 1186 D. White-pine blister rust in western Europe. 10¢.
- *1262 D. Effect of kiln drying, steaming, and air seasoning on certain fungi in wood. 10¢.
- *1298 D. Control of decay in pulp and pulpwood. 25¢.

Technical Bulletins:

- *87 T. White-pine blister rust: A comparison of European with North American conditions. 15¢.
- *155 T. Quaking aspen—A study in applied forest pathology. 10¢.
- *246 T. The relation of season of wounding and shellacking to callus formation in tree wounds. 10¢.
- 257 T. Deterioration of chestnut in southern Appalachians. 10¢.
- *286 T. Decay and other losses in Douglas fir in western Oregon and Washington. 20¢.

Department Circulars:

- *226 DC. White-pine blister rust in western United States. 10¢.
- *370 DC. Chestnut blight in southern Appalachians. 10¢.

Circulars:

- 170 C. The Dutch elm disease. 5¢.
- 207 C. Deterioration of Christmas holly in transit. 10¢.
- 217 C. *Cronartium comptoniae*, the sweetfern blister rust of pitch pines. 5¢.

¹ These publications belong to an early series, the studies having been made and the material prepared for issuance prior to 1914.

Publications preceded by an asterisk (*) are obtainable by purchase only

Miscellaneous Publications:

- 22 MP. Protect white pine from blister rust. 5¢.
 23 MP. Protect western white pine and sugar pine from blister rust. 10¢.
 27 MP. Black currant spreads white-pine blister rust. 5¢.

Yearbook Separates:

- 598 Y. Chestnut bark disease. 10¢.

Miscellaneous:

- Protect white pine from blister rust. 5¢.

The following publication belongs to an early series, the studies having been made and the material prepared for issuance prior to 1914:

- *The mistletoe pest in the Southwest. (Bureau of Plant Industry bulletin 166.) 10¢.

DOGS**Farmers' Bulletins:**

- 1268 F. Sheep-killing dogs. 5¢.
 1491 F. Breeds of dogs. 5¢.

Department Circulars:

- 338 DC. Parasites and parasitic diseases of dogs. 10¢.

DRAINAGE**Farmers' Bulletins:**

- 805 F. Drainage of irrigated farms. 5¢.
 *815 F. Organization, financing, and administration of drainage districts. 5¢.
 *1131 F. Tile-trenching machinery. 5¢.
 1606 F. Farm drainage. 5¢.

Department Bulletins:

- *114 D. Report upon Black and Boggy Swamps drainage district, Hampton and Jasper Counties, S. C. 15¢.
 *724 D. Drainage methods and foundations for county roads. 20¢.
 *854 D. Flow of water in drain tile. 25¢.
 *1017 D. Reports on drainage and prevention of overflow in the valley of the Red River of the North. 50¢.
 *1456 D. Drainage by means of pumping from wells in Salt River Valley, Ariz. 10¢.

Technical Bulletins:

- 129 T. Flow of water in drainage channels. 40¢.
 184 T. Erosion and silting of dredged drainage ditches. 25¢.
 194 T. Economic status of drainage districts in the South, 1926. 10¢.
 269 T. Economical use of large tile for land drainage. 5¢.
 *327 T. Cost of pumping for drainage in the Upper Mississippi Valley. 10¢.

Yearbook Separates:

- *640 Y. Economy of farm drainage. 5¢.

DRY FARMING

(See also Reclamation Projects; Farm Management)

Farmers' Bulletins:

- *1163 F. Dry farming in western South Dakota. 5¢.
 1545 F. Dry-farming methods and practices in wheat growing in Columbia and Snake River Basins. 5¢.

Department Bulletins:

- *1173 D. Experiments in wheat production on the dry lands of western United States. 10¢.
 *1315 D. Dry farming in southeastern Wyoming. 5¢.
 *1427 D. Dry-land gardening at northern Great Plains Field Station Mandan, N.Dak. 5¢.

Technical Bulletins:

- *329 T. Experiments in wheat production on the dry lands of Oregon, Washington, and Utah. 10¢.
 *369 T. Pima Egyptian cotton in irrigated rotations at the Yuma Field Station, Bard, Calif. 5¢.

Circulars:

- *4 C. Settlers' progress in dry-land farming in eastern New Mexico. 10¢.

Miscellaneous:

The following publication belongs to an early series, the studies having been made and the material prepared for issuance prior to 1914:

- *Agriculture in the central part of the semiarid portion of the Great Plains. (Bureau of Plant Industry Bulletin 215.) 5¢.

EXPERIMENT STATION WORK**Department Bulletins:**

- *33 D. Cereal experiments in Dickinson, N.Dak. 10¢.
 *113 D. Experiments with crops under fall irrigation at Scottsbluff Reclamation Project Experimental Farm. 5¢.
 *135 D. Experiments in production of crops on alkali land in Huntley Reclamation Project, Montana. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Department Bulletins—Continued.

- *162 D. Horticultural experiments in San Antonio Field Station, Texas. 5¢.
- *270 D. Cereal experiments at Williston Station. 10¢.
- *297 D. Cereal investigations on Belle Fourche Experiment Farm. 10¢.
- *398 D. Cereal experiments at Judith Basin Substation, Moccasin, Montana. 10¢.
- *402 D. Cereal experiments at Akron Field Station, Colorado. 10¢.
- *430 D. Cereal experiments on Cheyenne Experiment Farm, Archer, Wyoming. 10¢.
- *546 D. Effect of fall irrigation on crop yields at Belle Fourche, S. Dak. 5¢.
- *836 D. Broomcorn experiments at Woodward, Okla., 1920. 10¢.
- *1039 D. Experiments with cereals on the Belle Fourche Experiment Farm, Newell, S. Dak. 15¢.
- *1094 D. Methods of winter-wheat production at the Fort Hays Branch Station. 5¢.
- *1155 D. Rice experiments at the Biggs Rice Field Station in California. 10¢.
- *1172 D. Cereal experiments at Chico, California. 10¢.
- *1175 D. Grain-sorghum experiments at the Woodward Field Station in Oklahoma. 15¢.
- 1257 D. Land reclamation policies in United States. 5¢.
- *1287 D. Experiments with cereals at Akron (Colo.) Field Station in 15-year period 1908 to 1922, inclusive. 15¢.
- 1293 D. Tillage and rotation experiments at Dickinson, Hettinger, and Williston, N. Dak. 5¢.
- *1301 D. Report of Northern Great Plains Field Station for 10-year period 1913-1922, inclusive. 15¢.
- *1304 D. Crop rotation and cultural methods at Akron (Colo.) Field Station. 5¢.
- *1306 D. Work of Sheridan Field Station for 7 years from 1917 to 1923, inclusive. 5¢.
- *1309 D. Experiments with small grains on Arlington Experiment Farm. 10¢.
- 1310 D. Experiments with fallow in north-central Montana. 5¢.
- 1337 D. Work on Northern Great Plains Field Station in 1923. 5¢.
- 1387 D. Experiments in rice culture at the Biggs Rice Field Station in California. 10¢.
- 1473 D. Cotton-spacing experiments at Greenville, Texas. 15¢.

Technical Bulletins:

- *14 T. Cereal experiments at Fort Hays Branch Station, Hays, Kans., 1912 to 1923. 15¢.
- 17 T. Work of United States Dry-Land Field Station, Ardmore, S. Dak., 1912-25. 15¢.
- 38 T. Rate and date of seeding and seed-bed preparation for winter wheat at Arlington Experiment Farm. 5¢.
- 39 T. Inheritance of awnedness, yield, and quality in crosses between Bobs Hard Federation, and Propo wheats at Davis, Calif. 10¢.
- 51 T. Broomcorn experiments at United States Dry-land Field Station, Woodward, Okla., 1928. 10¢.
- 116 T. Dairy work at the Huntley Field Station, Huntley, Mont., 1918-27. 15¢.
- 330 T. Rotation and tillage experiments at the Lawton (Okla.) Field Station. 5¢.
- *353 T. Agricultural investigations at the Huntley (Mont.) Field Station, 1927-30. 10¢.
- *369 T. Pima Egyptian cotton in irrigated rotations at the Yuma Field Station, Bard, Calif. 5¢.

Department Circulars:

- *60 DC. Work on the Belle Fourche Reclamation Project Experiment Farm in 1918. 5¢.
- *75 DC. Work of the Yuma Reclamation Project Experiment Farm in 1918. 10¢.
- 80 DC. Work in 1918 of the Newlands (formerly the Truckee-Carson) Reclamation Project Experiment Farm. 5¢.
- *86 DC. Work of the Huntley Reclamation Project Experiment Farm in 1918. 5¢.
- *110 DC. Work of the Umatilla Reclamation Project Experiment Farm in 1918 and 1919. 5¢.
- *136 DC. Work of Newlands Reclamation Project Experiment Farm in 1919. 5¢.
- *147 DC. Work of Huntley Reclamation Project Experiment Farm in 1919. 5¢.
- 173 DC. Work of Scottsbluff Reclamation Project Experiment Farm in 1918 and 1919. 5¢.
- *204 DC. Work of the Huntley Reclamation Project Experiment Farm in 1920. 5¢.
- *209 DC. Work of San Antonio Experiment Farm in 1919 and 1923. 10¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Department Circulars—Continued.

- *221 DC. Work of Yuma Reclamation Project Experiment Farm in 1919 and 1920. 10¢.
- *267 DC. Work of Newlands Reclamation Project Experiment Farm in 1920 and 1921. 5¢.
- *275 DC. Work of Huntley Reclamation Project Experiment Farm in 1921. 5¢.
- *277 DC. Crop tests at cooperative testing station, Sacaton, Ariz. 10¢.
- *289 DC. Work of Scottsbluff Experiment Farm in 1920 and 1921. 5¢.
- 330 DC. Work of Huntley Reclamation Project Experiment Farm in 1922. 5¢.
- *339 DC. Work of Belle Fourche Reclamation Experiment Farm, from 1919 to 1922, inclusive. 10¢.
- *342 DC. Work of Umatilla Reclamation Project Experiment Farm in 1920, 1921, and 1922. 5¢.
- *352 DC. Work of Newlands Reclamation Project Experiment Farm in 1922 and 1923. 5¢.
- 369 DC. Work of the Huntley Field Station in 1923 and 1924. 10¢.
- 372 DC. Agricultural investigations at United States Field Station, Sacaton, Ariz., 1922, 1923, and 1924. 10¢.
- *401 DC. Growth and development of cotton plants at Greenville, Tex. 5¢.
- 417 DC. Work of Belle Fourche Field Station in 1923, 1924, and 1925. 10¢.
- 422 DC. Work of Umatilla Field Station in 1923, 1924, and 1925. 5¢.

Circulars:

- 5 C. Work of Scottsbluff Field Station, 1922 to 1925. 10¢.
- *12 C. Dairy work at the Woodward Field Station, Woodward, Okla., 1921 to 1926. 10¢.
- 69 C. Work of the Newlands Field Station, Nevada, 1924 to 1927. 10¢.
- 70 C. Work of the Huntley Field Station, Montana, 1925 to 1926. 10¢.
- 85 C. Studies of cotton root rot at Greenville, Tex. 10¢.
- 173 C. Cycles of growth in cotton root rot at Greenville, Tex. 5¢.
- 184 C. Methods of crop production at the Colby (Kans.) Branch Experiment Station, 1915 to 1929. 5¢.
- 193 C. Crop rotation and tillage experiments at the San Antonio (Tex.) Field Station. 10¢.
- 202 C. Agronomic work of the Big Spring, Tex., Field Station, 1915 to 1929. 5¢.
- 206 C. Agricultural investigations at the U.S. Field Station, Sacaton, Ariz., 1925 to 1930. 10¢.
- 213 C. Summer fallow at Ardmore, S.Dak. 5¢.

Miscellaneous Publications:

- *128 MP. List of bulletins of the Agricultural Experiment Stations for the calendar years 1929 and 1930. 15¢.
- 130 MP. Feeding and management investigations at the United States Dairy Experiment Station at Beltsville, Md., 1930 Report. 5¢.

Miscellaneous:

- *Rocky Mountain Forest Experiment Station. 10¢.
- The following publication belongs to an early series, the studies having been made and the material prepared for issuance prior to 1914:
- *Forest Experiment Stations. (Secretary Circular 183). 10¢.

EXTENSION WORK**Department Bulletins:**

- 1384 D. Effectiveness of extension in reaching rural people. 5¢.

Technical Bulletins:

- 106 T. Extension methods and their relative effectiveness. 15¢.
- 125 T. Relative costs of extension methods which influence changes in form and home practices. 10¢.

Department Circulars:

- *30 DC. Organization of county for extension work, farm-bureau plan. 5¢.
- *38 DC. Boys' agricultural clubs in Southern States. 5¢.
- *66 DC. Organization and results of boys' and girls' club work in Northern and Western States, 1918. 5¢.
- *106 DC. Status and results, county agent work, Northern and Western States, 1919. 10¢.
- 107 DC. System of field and office records for county extension workers. 5¢.
- *140 DC. Statistics of cooperative extension work, 1920-21. 5¢.
- *179 DC. Status and results of county agent work, Northern and Western States, 1920. 5¢.
- *190 DC. Extension work among negroes, 1920. 5¢.
- *192 DC. Status and results of boys' and girls' club work, Northern and Western States, 1920. 10¢.
- *244 DC. Status and results of county agent work, Northern and Western States, 1921. 10¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Department Circulars—Continued.

- *248 DC. Status and results of extension work in the Southern States, 1903 to 1921. 10¢.
- *253 DC. Statistics of cooperative extension work, 1922-23. 5¢.
- *255 DC. Status and results of boys' and girls' club work, Northern and Western States, 1921. 5¢.
- *270 DC. Extension work in agricultural engineering, 1922. 5¢.
- *285 DC. Status and results of home demonstration work, Northern and Western States, 1921. 5¢.
- 308 DC. Extension program in range livestock, dairying, and human nutrition for Western States. 5¢.
- *312 DC. Boys' and girls' club work, 1922. 10¢.
- *314 DC. Home demonstration work, 1922. 10¢.
- 335 DC. Extension program in crop production to reenforce range livestock, dairying, and human nutrition for Western States. 5¢.
- *343 DC. Extension work in agronomy, 1923. 5¢.
- *344 DC. Extension work in agricultural engineering, 1923. 5¢.
- 345 DC. Farm-forestry extension, early development, and status in 1923. 5¢.
- *346 DC. Extension work with fruits, vegetables, and ornamentals, 1923. 5¢.
- *348 DC. Boys' and girls' 4-H club work, 1923. 10¢.
- *355 DC. Extension work among Negroes, conducted by Negro agents, 1923. 5¢.
- *375 DC. Extension program in home management and farm management for Western States, with reports of standing regional committees on range livestock, dairying, farm crops, and human nutrition. 5¢.
- 385 DC. How to prepare and display extension exhibits. 5¢.
- *399 DC. Home demonstration work, 1923. 10¢.

Miscellaneous Circulars:

- 59 MC. County agricultural agent work under Smith-Lever Act, 1914 to 1924. 10¢.
- *72 MC. Decade of negro extension work, 1914-24. 10¢.
- 77 MC. Boys' and girls' 4-H club work. 10¢.
- 78 MC. Use of motion pictures in agricultural extension work. 10¢.
- 85 MC. Boys' and girls' 4-H club work under Smith-Lever Act, 1914 to 1924. 15¢.

Circulars:

- 17 C. Ten-year review of home-management extension, 1914-24. 10¢.
- *22 C. Ten years of agronomy extension, 1915-24. 5¢.
- *30 C. Farm-management extension, 1914 to 1924. 10¢.
- *43 C. Home demonstration work under the Smith-Lever Act, 1914-24. 10¢.
- 57 C. Rural church and cooperative extension work, outline of what extension work is, and how it may aid the rural church in community improvement. 10¢.
- 58 C. Planning and conducting extension campaigns. 10¢.

Miscellaneous Publications:

- *8 MP. Review of 5 years of fact organization and State and regional program making in Western States, and report of 1927 extension conference. 5¢.
- *15 MP. History of agricultural extension work in United States, 1785-1923. Cloth, 75¢.
- 45 MP. Forestry clubs for young people. 5¢.
- *52 MP. How to find economic facts and apply them as a basis for extension programs in home economics, dairying, and forestry. 5¢.
- 72 MP. Lantern slides and film strips of the United States Department of Agriculture. 5¢.
- 85 MP. Horticultural exhibitions. 10¢.
- *146 MP. Milk-quality improvement program for 4-H dairy clubs. 10¢.
- 148 MP. A milk-quality improvement program for extension workers. 5¢.
- 152 MP. Motion pictures of the United States Department of Agriculture. 5¢.

Yearbook Separates:

- *736 Y. Teamwork between the farmer and his agent. 5¢.

Miscellaneous:

- *Extension Service handbook on agriculture and home economics, October 1926. \$2.50.

The following publications belong to an early series, the studies having been made and the material prepared for issuance prior to 1914:

Office of Experiment Stations Bulletins:

- *79 Farmers' institutes: History and status in the United States and Canada. 5¢.
- *120 Proceedings of the seventh annual meeting of the American Association of Farmers' Institute Workers, Washington, D.C., June 24-26, 1902. 10¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Office of Experiment Stations Bulletins—Continued.

- *138 Proceedings of the eighth annual meeting of the American Association of Farmers' Institute Workers, Toronto, Ontario, June 23-26, 1903. 10¢.
- *154 Proceedings of the ninth annual meeting of the American Association of Farmers' Institute Workers, St. Louis, Mo., October 18-20, 1904. 5¢.
- *163 Agricultural instruction for adults in continental countries. 5¢.
- *165 Proceedings of the tenth annual meeting of the American Association of Farmers' Institute Workers, Washington, D.C., November 9-11, 1905. 15¢.
- *199 Proceedings of the twelfth annual meeting of the American Association of Farmers' Institute Workers, Washington, D.C., October 23-24, 1907. 15¢.
- *213 Proceedings of the thirteenth annual meeting of the American Association of Farmers' Institute Workers, Washington, D.C., November 26-27, 1908. 10¢.
- *225 Proceedings of the fourteenth annual meeting of the American Association of Farmers' Institute Workers, Portland, Oreg., August 16-17, 1909. 10¢.
- *238 Proceedings of the fifteenth annual meeting of the American Association of Farmers' Institute Workers, Washington, D.C., November 14-15, 1910. 10¢.
- *242 County schools of agriculture and domestic economy in Wisconsin. 10¢.
- *251 Proceedings of the sixteenth annual meeting of the American Association of Farmers' Institute Workers, Columbus, Ohio, November 13-14, 1911. 10¢.

Office of Experiment Stations Circulars:

- *77 A secondary course in agronomy. 5¢.
- *99 Farmers' institutes for young people. 5¢.
- *115 Report of the committee on instruction in agriculture, 1911. 5¢.
- *118 The work of the agricultural colleges in training teachers of agriculture for secondary schools. 5¢.

FARM ORGANIZATIONS—TENANCY—LABOR**Farmers' Bulletins:**

- 1164 F. The farm lease contract. 5¢.

Department Bulletins:

- *984 D. National influence of a single farm community. A story of the flow into national life of migration from the farm. 20¢.
- 1020 D. Harvest labor problem in the Wheat Belt. 10¢.
- 1181 D. Labor requirements of Arkansas crops. 15¢.
- 1211 D. Sources of supply and conditions of employment of harvest labor in the Wheat Belt. 5¢.
- *1220 D. Farm labor in Massachusetts, 1921. 5¢.
- *1230 D. Conditions affecting demand for harvest labor in the Wheat Belt. 10¢.
- *1269 D. Relation of land tenure to plantation organization. 15¢.
- 1271 D. Study of farm organization in southwestern Minnesota. 15¢.
- *1277 D. Input as related to output in farm organization and cost-of-production studies. 10¢.
- 1285 D. Truck farm labor in New Jersey, 1922. 10¢.
- *1292 D. Field and crop labor on Georgia farms (coastal plain area). 5¢.
- 1295 D. Land settlement and colonization in Great Lakes States. 15¢.
- 1296 D. Study of farm organization in central Kansas. 15¢.
- *1322 D. Some economic aspects of farm ownership. 5¢.
- *1400 D. Factors affecting farmers' earnings in southeastern Pennsylvania. 15¢.
- 1404 D. Tenancy and ownership among negro farmers in Southampton County, Va. 5¢.
- 1432 D. Ownership of tenant farms in United States. 10¢.
- 1433 D. Ownership of tenant farms in North Central States. 10¢.

Technical Bulletins:

- *45 T. Study of ranch organization and methods of range-cattle production in northern Great Plains region. 20¢.
- 213 T. Perquisites and wages of hired farm laborers, 1925-26. 10¢.

Department Circulars:

- *351 DC. Centralized management of large corporate estate operated by tenants in the Wheat Belt. 10¢.
- *407 DC. Membership relations of cooperative associations, (cotton and tobacco). 5¢.

Miscellaneous Circulars:

- *3 MC. Relation of agricultural education to farm organizations. 5¢.

Circulars:

- 80 C. Organization and management problems of cooperative oil associations in Minnesota. 10¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Circulars—Continued.

- 94 C. Farmers' cooperative associations in the United States, 1929. 15¢.
 240 C. What Ohio farmers think of farmer-owned business organizations in that State. 5¢.

Yearbook Separates:

- 772 Y. Thrashing ring in the Corn Belt. 5¢.
 773 Y. Livestock and reconstruction. 5¢.
 *789 Y. Housing the worker on the farm. 5¢.
 890 Y. Farm operations. 15¢.
 897 Y. Farm ownership and tenancy. 15¢.

FATS—OILS—NAVAL STORES*(See also Foods)***Leaflets:**

- 41 L. Good naval-stores practice. 5¢.
 83 L. More turpentine, less scar, better pine. 5¢.

Department Bulletins:

- *898 D. Turpentine: Its sources, properties, uses, transportation, and marketing, with recommended specifications. 15¢.
 904 D. Production and utilization of corn oil in United States. 5¢.
 989 D. Pine-oil and pine-distillate product emulsions: Method of production, chemical properties, and disinfectant action. 5¢.
 *1036 D. Coal-tar and water-gas tar creosotes: Their properties and methods of testing. 20¢.
 *1054 D. Comparison of corn oils obtained by expeller and benzol extraction methods. 5¢.
 1471 D. Oil content of flaxseed, with comparisons of tests for determining oil content. 10¢.
 1475 D. Production and utilization of fats, fatty oils, and waxes in United States. 10¢.

Technical Bulletins:

- 16 T. Methods of extracting volatile oils from plant material and production of such oils in the United States. 10¢.
 *71 T. Simple methods for determining oil content of seeds and other oil-bearing materials. 5¢.
 *204 T. Timber growing and logging and turpentine practices in the southern pine region. 30¢.
 241 T. Analyses and composition of California lemon and orange oils. 5¢.
 262 T. Improvement in the production of oleoresin through lower chipping. 15¢.
 276 T. The fractionation of American gum spirits of turpentine and evaluation of its pinene content by optical means. 5¢.
 298 T. Experiments in naval stores practice. 10¢.

Department Circulars:

- *327 DC. French turpentine system applied to longleaf pine. 5¢.
Circulars:

- 110 C. Specific gravity and Baume gravity tables for turpentine. 5¢.

Miscellaneous Publications:

- 106 MP. Pine tree treasures [naval stores]. 5¢.
 140 MP. Protein tests for wheat and oil tests for flax seed and soybeans. 10¢.

Yearbook Separates:

- 691 Y. Some American vegetable food oils, their sources and methods of production. 5¢.

Miscellaneous:

- The following publications belong to an early series, the studies having been made and the material prepared for issuance prior to 1914:
 *Olive oil and its substitutes. (Bureau of Chemistry Bulletin 77). 10¢.
 *Possibilities of western pines as a source of naval stores. (Forest Service Bulletin 116.) 10¢.
 *The production of volatile oils and perfumery plants in the United States. (Bureau of Plant Industry Bulletin 195.) 10¢.

FEEDS—FEEDING*(See also Silos)***Farmers' Bulletins:**

- 724 F. Feeding of grain sorghums to livestock. 5¢.
 1133 F. Feeding garbage to hogs. 5¢.
 1179 F. Feeding cottonseed products to livestock. 5¢.
 1504 F. Self-feeding versus hand-feeding sows and litters. 5¢.
 1549 F. Feeding cattle for beef. 5¢.
 1573 F. Legume hays for milk production. 5¢.
 1617 F. Soybean utilization. 5¢.
 1626 F. Feeding dairy cows. 5¢.
 1699 F. Growing root crops for livestock. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Department Bulletins:

- *610 D. Fish meal as a feed for swine. 5¢.
- *745 D. Chopped soap weed as emergency feed for cattle on south-western ranges. 5¢.
- *1166 D. Apple by-products as stock foods. 5¢.
- 1272 D. Value of various new feeds for dairy cows. 5¢.
- *1297 D. Effect of feeding cabbage and potatoes on flavor and odor of milk. 5¢.
- 1342 D. Effect of feeding green rye and green cowpeas on flavor and odor of milk. 5¢.

Technical Bulletins:

- 9 T. Effect of some succulent feeds on flavor and odor of milk. 5¢.
- 33 T. Jerusalem artichoke as crop plant. 5¢.
- *43 T. Sorgo silage, sorgo fodder, and cotton seed hulls as roughages in rations for fattening calves in the Southwest. 10¢.
- 110 T. Correcting the inefficiency of peanuts for growth in pigs. 5¢.
- *368 T. Changes in quantity and composition of fat in hogs fed a peanut ration followed by a corn ration. 5¢.
- *381 T. Feeding value for milk production of pasture grasses when grazed, when fed green and when fed as hay or silage. 5¢.
- *397 T. Comparison of grain rations for beef calves before and after weaning. 5¢.

Department Circulars:

- *379 DC. Use of salt in range management. 10¢.

Miscellaneous Circulars:

- 12 MC. Handbook for better feeding of livestock. 15¢.

Miscellaneous Publications:

- 96 MP. Feeding wheat to livestock, 1930. 5¢.
- 132 MP. Rice and its by-products for feeding livestock. 5¢.

FERTILIZERS**Farmers' Bulletin:**

- 921 F. Principle of liming of soils. 5¢.
- 1250 F. Green manuring. 5¢.
- 1496 F. Inoculation of legumes and nonlegumes with nitrogen-fixing and other bacteria. 5¢.
- 1663 F. Winter legumes for green manure in the Cotton Belt. 5¢.

Leaflets:

- 70 L. Home mixing of fertilizers. 5¢.
- 71 L. Fertilizers for pecan soils. 5¢.

Department Bulletins:

- *572 D. Recovery of potash as a by-product in the cement industry. 5¢.
- *1126 D. Effect of borax on growth and yield of crops. 15¢.
- 1179 D. Investigations of manufacture of phosphoric acid by volatilization process. 15¢.
- *1191 D. Potash from kelp: Early development and growth of giant kelp, *Macrocystis pyrifera*. 5¢.
- 1226 D. Recovery of potash as a by-product in blast-furnace industry. 5¢.
- 1280 D. Computation of fertilizer mixtures from concentrated materials. 5¢.
- *1379 D. Electroculture. 10¢.
- 1413 D. Cocoa by-products and their utilization as fertilizer materials. 10¢.

Technical Bulletins:

- *75 T. Crop-plant stimulation with paper mulch. 10¢.
- *182 T. Factors affecting the mechanical application of fertilizers to the soil. 30¢.
- *212 T. Mechanical analysis of finely divided natural phosphates. 5¢.
- 225 T. Results of fertilizer experiments on Norfolk fine sandy loam and on Norfolk sandy loam. 5¢.
- 335 T. Fertilizers for sweetpotatoes based on investigations in North Carolina. 5¢.
- *348 T. Use of the exponential yield curve in fertilizer experiments. 10¢.
- *364 T. The composition and distribution of phosphate rock with special reference to the United States. 10¢.
- *367 T. The use of winter legumes in the Southeastern States. 5¢.
- *371 T. The effect of different colloidal soil materials on the efficiency of superphosphate. 5¢.
- *389 T. The decomposition of hydrolytic peat products including ammoniated peat. 5¢.

Circulars:

- 64 C. Cyanamid, its uses as a fertilizer material. 5¢.
- 77 C. Suggestions for paper-mulch trials. 5¢.
- *125 C. Experiments in the use of fertilizers in growing forest planting material at the Savenac Nursery. 10¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Circulars—Continued.

- 129 C. Survey of the fertilizer industry. 5¢.
 167 C. Moss peat, its uses and distribution in the United States. 5¢.
 185 C. New fertilizer materials. 5¢.
 192 C. Progress report on mechanical application of fertilizers to cotton in South Carolina, 1930. 10¢.
 *264 C. Mechanical application of fertilizers to cotton in South Carolina, 1931. 5¢.
 *290 C. Grades of peat and muck for soil improvement. 5¢.

Miscellaneous Publications:

- 126 MP. Fertilizers for cotton soils. 5¢.
 136 MP. Conservation of fertilizer materials from minor sources. 5¢.
 *143 MP. American fertilizer (commercial). 5¢.

Yearbook Separates:

- *717 Y. Importance of developing our natural resources of potash. 5¢.

Miscellaneous:

The following publications belong to an early series, the studies having been made and the material prepared for issuance prior to 1914:

- *Miscellaneous papers: Part IV. Inoculation of soil with nitrogen-fixing bacteria. (Bureau of Plant Industry Bulletin 72.) 5¢.
 *The relation of crown gall to legume inoculation. (Bureau of Plant Industry Circular 76.) 5¢.

FIRE HAZARDS—DUST EXPLOSIONS

(See also Forestry)

Farmers' Bulletins:

- 1512 F. Protection from lightning. 5¢.
 1590 F. Fire-protective construction on the farm. 5¢.
 1643 F. Fire safeguards for the farm. 5¢.
 1667 F. Rural community fire departments. 5¢.
 1678 F. Safe use and storage of gasoline and kerosene on the farm. 5¢.

Leaflets:

- 44 L. Fires on farms. 5¢.

Department Bulletins:

- *379 D. Dust explosions and fires in grain separators in Pacific Northwest. 10¢.
 *530 D. Organization and management of a farmers' mutual fire insurance company. 5¢.
 681 D. Grain-dust explosions, investigation in experimental attrition mill at Pennsylvania State College. 10¢.
 *1294 D. Role of fire in California pine forests. 20¢.
 1373 D. Dust control in grain elevators. 10¢.
 1495 D. Cover type and fire control in the national forests of northern California. 10¢.

Technical Bulletins:

- 74 T. Value of inert gas as preventive of dust explosions in grinding equipment. 5¢.
 *141 T. The spontaneous combustion of hay. 10¢.
 209 T. The determination of hour control for adequate fire protection in the major cover types of the California pine region. 10¢.

Department Circulars:

- *98 DC. Installation of dust-collecting fans on threshing machines for prevention of explosions and fires and for grain cleaning. 5¢.
 *171 DC. Unprotected electric lights, a fire and explosion hazard in dusty industries. 5¢.
 243 DC. Forest fires in California, 1911-1920. 15¢.
 *354 DC. Weather conditions and forest fires in California. 5¢.

Miscellaneous Circulars:

- *19 MC. Forest fires in intermountain region. 5¢.
 *53 MC. When fire is banished from the land of white oak. 5¢.
 *79 MC. Forest-fire prevention handbook for school children. (California). 15¢.
 *88 MC. Forest-fire prevention handbook for schools of Arizona. 10¢.
 *89 MC. Forest-fire prevention handbook for schools of New Mexico. 10¢.

Circulars:

- 76 C. Fires in cotton gins and how to prevent them. 5¢.

Miscellaneous Publications:

- *20 MP. Forest-fire prevention handbook for schools of Oregon. 10¢.
 *40 MP. Forest-fire prevention handbook for schools of Washington (State). 15¢.

Miscellaneous:

- *Take care. Every time it happens every farmer shares the loss. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

FISH—MARINE PRODUCTS

Department Bulletins:

- 538 D. Shrimp: Handling, transportation, and uses. 5¢.
 740 D. A study of some of the chemical changes which occur in oysters during their preparation for market. 5¢

Technical Bulletins:

- *64 T. Bacteriology and chemistry of oysters, with special reference to regulatory control of production, handling, and shipment. 15¢.

Yearbook Separates:

- 623 Y. Supplementing our meat supply with fish. 5¢.

Miscellaneous:

- The following publication belongs to an early series, the studies having been made and the material prepared for issuance prior to 1914:
 *Shellfish contamination from sewage waters and from other sources. (Bureau of Chemistry Bulletin 136.) 10¢.

FLAX

(See also Diseases)

Farmers' Bulletins:

- 669 F. Fiber flax. 5¢.
 1650 F. Flaxseed production by power farming methods in northern Great Plains. 5¢.

Department Bulletins:

- *883 D. Experiments with flax on breaking. 10¢.
 *1185 D. Flax-stem anatomy in relation to retting. 5¢.

Technical Bulletins:

- 133 T. Flax cropping in mixture with wheat, oats, and barley. 10¢.
 236 T. The time to harvest fiber flax. 5¢.

Department Circulars:

- 264 DC. Frost resistance in flax. 5¢.
 341 DC. Seed flax as farm crop in 1925. 5¢.

Circulars:

- 231 C. Adaptation of fiber flax to the South Atlantic States. 5¢.

FLOWERS—SHRUBS—LAWNS

(See also Diseases; Insects)

Farmers' Bulletins:

- 750 F. Roses for the home. 5¢.
 1087 F. Beautifying the farmstead. 5¢.
 1171 F. Growing annual flowering plants. 5¢.
 1311 F. Chrysanthemums for the home. 5¢.
 1370 F. Dahlias for the home. 5¢.
 1381 F. Herbaceous perennials. 10¢.
 1406 F. Garden irises. 5¢.
 1567 F. Propagation of trees and shrubs. 5¢.
 1591 F. Transplanting trees and shrubs. 5¢.
 1677 F. Planting and care of lawns. 5¢.

Leaflets:

- *90 L. Rockeries. 5¢.

Department Bulletins:

- 1082 D. Production of tulip bulbs. 25¢.
 *1270 D. Production of narcissus bulbs. 20¢.
 *1327 D. Production of grape-hyacinth bulbs. 5¢.
 *1331 D. Madonna lily. 5¢.
 *1459 D. The Regal lily. 10¢.
 *1462 D. American bulbs under glass. 15¢.

Circulars:

- 31 C. Japanese flowering cherries. 10¢.
 *42 C. The yellow day lilies. 5¢.
 *66 C. Cacti. 25¢.
 68 C. Azaleas and rhododendrons from seed. 5¢.
 *102 C. The production of lily bulbs. 20¢.
 112 C. The production of hyacinth bulbs. 10¢.
 113 C. Experiments with hot-water treatment of daffodils in relation to forcing and field culture. 5¢.
 215 C. Commercial forcing of lilies-of-the-valley. 10¢.

FOODS—NUTRITION]

(See also Canning; Standards)

Farmers' Bulletins:

- *653 F. Honey, its uses in the home. 5¢.
 712 F. School lunches. 5¢.
 960 F. Neufchatel and cream cheese: Farm manufacture and use. 5¢.
 *1075 F. Unfermented grape juice. How to make it in the home. 5¢.
 1082 F. Home supplies furnished by the farm. 5¢.
 1191 F. Making American cheese on the farm. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Farmers' Bulletins—Continued.

- *1195 F. Rice as food (with recipes). 5¢.
- 1236 F. Corn and its uses as food. 5¢.
- *1264 F. Farm manufacture of unfermented apple juice. 5¢.
- 1313 F. Good proportions in the diet. 5¢.
- *1359 F. Milk, and its uses in the home. 5¢.
- 1374 F. Care of food in the home. 5¢.
- 1424 F. Making vinegar in the home and on the farm. 5¢.
- 1450 F. Home baking. 5¢.
- 1471 F. Canning fruits and vegetables at home. 5¢.
- 1617 F. Soybean utilization. 5¢.
- 1674 F. Food for children. 5¢.
- 1705 F. Milk for the family. 5¢.

Leaflets:

- *17 L. Cooking beef according to the cut. 5¢.
- *28 L. Lamb as you like it. 5¢.
- *39 L. Eggs at any meal. 5¢.
- 42 L. Good food habits for children. 5¢.
- *45 L. Pork in preferred ways. 5¢.
- 48 L. Reindeer recipes. 5¢.
- 49 L. Ice creams frozen without stirring. 5¢.
- *66 L. Rabbit recipes. 5¢.
- 74 L. Boning lamb cuts. 5¢.
- *81 L. Cooking cured pork. 5¢.

Department Bulletins:

- *241 D. Studies on fruit juices. 5¢.
- *310 D. Digestibility of some animal fats (lard, beef fat, mutton fat, butter). 5¢.
- 319 D. Fermented milks. 5¢.
- *469 D. Fats and their economical use in the home. 5¢.
- *471 D. Eggs and their value as food. 5¢.
- *505 D. Digestibility of some vegetable fats. 5¢.
- *507 D. Studies on digestibility of some animal fats. 5¢.
- *612 D. Digestibility of the dasheen. 5¢.
- *613 D. Digestibility of certain miscellaneous animal fats. 5¢.
- *656 D. Concord grape juice: Manufacture and chemical composition. 5¢.
- *751 D. Experiments on digestibility of wheat bran in a diet without wheat flour. 5¢.
- *781 D. Digestibility of some by-product oils. 5¢.
- 1123 D. Proportioning ingredients for ice cream and other frozen products by balance method. 5¢.
- 1161 D. Effect of composition on the palatability of ice cream. 5¢.
- 1265 D. Scalding, precooking, and chilling as preliminary canning operations. 10¢.
- 1307 D. Absorption and retention of hydrocyanic acid by fumigated food products. Part 2. 5¢.

Technical Bulletins:

- *8 T. Dietary scales and standards for measuring a family's nutritive needs. 5¢.
- 46 T. Flour for pretzels. 5¢.
- *333 T. Food supply and pellagra incidence in 73 South Carolina farm families. 5¢.

Department Circulars:

- 129 DC. Milk for the family. 5¢.

Miscellaneous Circulars:

- *49 MC. Guide to good meals for junior homemaker. 5¢.

Circulars:

- 50 C. Proximate composition of fresh fruits. 5¢.
- *84 C. Vitamins in food materials. 10¢.
- 89 C. Nutritive value and cost of food served to college students. 5¢.
- 138 C. Development and use of baking powder and baking chemicals. 5¢.
- 146 C. Proximate composition of fresh vegetables. 5¢.
- 153 C. A simple chemical test for predetermining the culinary quality of potatoes as affected by the accumulation of soluble sugars. 10¢.
- *183 C. Factors for converting percentages of nitrogen in foods and feeds into percentages of protein. 5¢.
- 203 C. Midday meals for preschool children in day nurseries and nursery schools. 10¢.
- 205 C. The iron content of vegetables and fruits. 5¢.
- 230 C. Chemical composition of certain kinds of sausage and other meat food products. 5¢.
- *265 C. Conserving food value, flavor, and attractiveness, in cooking vegetables. 5¢.
- *296 C. Diets at four levels of nutritive content and cost. 5¢.

Miscellaneous Publications:

- 113 MP. Adequate diet for families with limited incomes. 5¢.
- 167 MP. A fruit and vegetable buying guide for consumers. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Yearbook Separates:

- *592 Y. Some results obtained in studying ripening bananas with respiration calorimeter. 5¢.
- 623 Y. Supplementing our meat supply with fish. 5¢.
- *774 Y. Composition and food value of bottled soft drinks. 5¢.
- 1117 Y. Sweet potatoes high in food value and vitamin content. 5¢.

Miscellaneous:

- *Chemical composition of American food materials. (O.E.S. Bulletin 28.) 10¢.
 - *Aunt Sammy's radio recipes. (Cook Book.) 10¢.
 - *Composition of food material. Set of 15 colored charts, 24 by 18 inches. \$1 per set.
 - *The convenient kitchen. Set of black and white charts, 16 by 20 inches. 50¢ per set.
 - *Food selection and meal planning. Set of 8 black and white charts, 18 by 23 inches. 50¢ per set.
 - *100 caloric portions of a few familiar foods; 1 chart 23 by 17 inches showing pen and ink sketches of 20 foods. 10¢.
 - *Household refrigeration. Set of 6 black and white charts, 16 by 20 inches. 20¢ per set.
 - *Nutrition. Set of 10 black and white charts, 15 by 23 inches. 50¢ per set.
 - *Child feeding. Set of 8 black and white charts, 15 by 23 inches. 25¢ per set.
- Low-cost food publications (Free in limited quantity):
 Family's food at low cost.
 Emergency food relief and child health.
 Getting the most for your food money.
 Family food budgets for the use of relief agencies.
 How to spend your food money.
- The following publications belong to an early series, the studies having been made and material prepared for issuance prior to 1914:
 *A bacteriological study of ham souring. (Bureau of Animal Industry Bulletin 132.) 15¢.
 *Influence of food preservatives and artificial colors on digestion and health (Bureau of Chemistry Bulletin 84); Part I. Boric acid and borax, 30¢; Part IV. Benzoic acid and benzoates, 25¢.
 *The determination of the deterioration of maize, with incidental reference to pellagra. (Bureau of Plant Industry Bulletin 199.) 5¢.

FORESTRY—FOREST PRODUCTS

(See also Agricultural Education; Diseases; Insects; Fire Hazards; Marketing; Plant Propagation)

Farmers' Bulletins:

- *622 F. Basket willow culture. 5¢.
 - *1071 F. Making woodlands profitable in Southern States. 5¢.
 - 1117 F. Forestry and farm income. 5¢.
 - 1123 F. Growing and planting hardwood seedlings on farm. 5¢.
 - 1177 F. Care and improvement of farm woods. 5¢.
 - *1208 F. Trees for town and city streets. 5¢.
 - *1209 F. Planting and care of street trees. 5¢.
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 - *1492 F. Arbor Day: Its purpose and observance. 5¢.
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 - 1591 F. Transplanting trees and shrubs. 5¢.
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 - *1693 F. Growing Christmas holly on the farm. 5¢.
- Leaflets:**
- *18 L. Bamboos and bamboo culture. 5¢.
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 - *30 L. Cutting the farm woods "profit wise." 5¢.
 - 32 L. Planting southern pine. 5¢.
 - 35 L. Producing pine nursery stock in the South. 5¢.
 - 40 L. Woods burning in the South. 5¢.
 - 41 L. Good naval-stores practice. 5¢.

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Leaflets—Continued.

- 55 L. Small trees wasteful to cut for saw timber. 5¢.
- 57 L. Pulp-wood crops in the Northeast. 5¢.
- *58 L. Making a model to show how forests prevent erosion. 5¢.
- 62 L. Why some wood surfaces hold paint longer than others. 5¢.
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Department Bulletins:

- *152 D. Eastern hemlock. 10¢.
 - *232 D. Production of lumber in 1913. 5¢.
 - *234 D. Utilization and management of lodgepole pine in Rocky Mountains. 15¢.
 - *327 D. Spruce and balsam fir trees of Rocky Mountain region. 20¢.
 - *474 D. True mahogany. 5¢.
 - *508 D. Yields from destructive distillation of certain hardwoods, second progress report. 5¢.
 - *552 D. Seasoning of wood. 10¢.
 - *556 D. Mechanical properties of woods grown in United States. 10¢.
 - *741 D. Effect of grazing upon aspen reproduction. 10¢.
 - *845 D. Production of lumber, lath, and shingles in 1918. 10¢.
 - *863 D. Forestry lessons on home woodlands. 10¢.
 - *894 D. Manual of design and installation of Forest Service water spray dry kiln. 10¢.
 - *898 D. Turpentine: Its sources, properties, uses, transportation, and marketing, with recommended specifications. 15¢.
 - *909 D. Utilization of black walnut. 30¢.
 - 989 D. Pine-oil and pine-distillate product emulsions: Method of production, chemical properties, and disinfectant action. 5¢.
 - *1003 D. Distillation of stumpwood and logging waste of western yellow pine. 15¢.
 - *1050 D. Identification of true mahogany, certain so-called mahoganies, and some common substitutes. 10¢.
 - *1061 D. Long-leaf pine. 15¢.
 - 1113 D. Development of cooperative shelter-belt demonstrations on northern Great Plains. 10¢.
 - *1119 D. Lumber cut in United States. 1870-1920, declining production and high prices as related to forest exhaustion. 15¢.
 - *1131 D. Formation and pathological anatomy of frost rings in conifers injured by late frosts. 10¢.
 - *1136 D. Kiln drying handbook. 30¢.
 - *1140 D. Deterioration of felled western yellow pine on insect-control projects. 5¢.
 - *1176 D. Some results of cutting in the Sierra forests of California. 10¢.
 - *1263 D. Relative resistance of tree seedlings to excessive heat. 5¢.
 - *1264 D. Forest planting in intermountain region. 15¢.
 - *1291 D. Aspen in central Rocky Mountain region. 15¢.
 - 1402 D. Timber growing and logging practice in California pine region; measures necessary to keep forest land productive and to produce full timber crops. 10¢.
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 - *1491 D. Timber growing and logging practice in central hardwood region; measures necessary to keep forest land productive and to produce full timber crops. 15¢.
 - 1493 D. Timber growing and logging practice in Douglas fir region; measures necessary to keep forest land productive and to produce full timber crops. 15¢.
 - 1494 D. Timber growing and logging practice in western white pine, and larch-fir forests of northern Rocky Mountains; measures necessary to keep forest land productive and to produce full timber crops. 15¢.
 - 1495 D. Cover type and fire control in the national forests of northern California. 10¢.
 - *1497 D. Forest planting in the Lake States. 20¢.
 - 1499 D. Timber growing and cutting practice in the lodgepole pine region. 15¢.
 - *1500 D. The gluing of wood. 25¢.
- Technical Bulletins:**
- 92 T. The economic aspects of forest destruction in northern Michigan. 25¢.
 - 104 T. Deterioration of wind-thrown timber on the Olympic Peninsula, Washington. 10¢.
 - 132 T. Decay of slash of northern white pine in southern New England. 5¢.
 - 139 T. The properties of western hemlock and their relation to uses of the wood. 20¢.
 - *142 T. Yields of second-growth spruce and fir in the Northeast. 15¢.

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Technical Bulletins—Continued.

- *156 T. Investigations in weed control by zinc sulphate and other chemicals at the Savenac Forest Nursery. 15¢.
- 158 T. Comparative strength properties of woods grown in the United States. 10¢.
- *164 T. Selective logging in the northern hardwoods of the Lake States. 10¢.
- 165 T. Kiln drying of southern yellow pine lumber. 20¢.
- *166 T. Timber growing and logging practice in the Northeast. 40¢.
- *167 T. Tests of large timber columns and presentation of the Forest Products Laboratory column formula 15¢.
- *168 T. The application of silviculture in controlling the specific gravity of wood. 15¢.
- 174 T. The air seasoning of wood. 35¢.
- 191 T. The production, extraction, and germination of lodgepole pine seed. 20¢.
- 201 T. The yield of Douglas fir in the Pacific Northwest. 20¢.
- *204 T. Timber growing and logging and turpentine practices in the southern pine region. 30¢.
- *205 T. Gluing wood in aircraft manufacture. 25¢.
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- *246 T. The relation of season of wounding and shellacking to callus formation in tree wounds. 10¢.
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- *248 T. Wood-liquid relations. 10¢.
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- *251 T. Southern white cedar. 25¢.
- 256 T. Suitability of brush lands in the intermountain region for the growth of natural or planted western yellow pine forests. 25¢.
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- *259 T. Slash disposal in the western yellow pine forests of Oregon and Washington. 20¢.
- 262 T. Improvement in the production of oleoresin through lower chipping. 15¢.
- 276 T. The fractionation of American gum spirits of turpentine and evaluation of its pinene content by optical means. 5¢.
- 282 T. Strength-moisture relations for wood. 20¢.
- 283 T. Timber growing and logging practice in the coast redwood region of California. 5¢.
- 285 T. Properties of western larch and their relation to uses of the wood. 35¢.
- 298 T. Experiments in naval stores practice. 10¢.
- 304 T. Alinement-chart method for preparing forest-tree volume tables. 10¢.
- 305 T. The strength and related properties of redwood. 10¢.
- 305 T. The strength and related properties of redwood. 10¢.
- 323 T. Second-growth yield, stand, and volume tables for the western white pine type. 10¢.
- *332 T. The bearing strength of wood under bolts. 5¢.
- *337 T. The portable band sawmill and selective logging in the loblolly pine forests of North Carolina. 5¢.
- *342 T. Causes of brashness in wood. 5¢.
- *343 T. Specific gravity and related properties of softwood lumber. 5¢.
- *354 T. Preliminary yield tables for second-growth stands in the California pine region. 5¢.
- *355 T. An analysis of log production in the "Inland Empire" region. 10¢.
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Department Circulars:

- *5 DC. Out-of-door playgrounds of the San Isabel National Forest. 5¢.
- *8 DC. Arbor Day. 5¢.
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- *132 DC. Mountain vacation land, Washington National Forest. 10¢.
- *211 DC. Government forest work. 10¢.
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- *295 DC. Basic grading rules and working stresses for structural timbers. 5¢.

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Department Circulars—Continued.

- *296 DC. Standard grading specifications for yard lumber. 20¢.
- *313 DC. Purchase of land for national forests under act of Mar. 1, 1911, the Weeks law. 5¢.
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- *327 DC. French turpentinizing system applied to longleaf pine. 5¢.
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- *421 DC. Control of stain, decay, and other seasoning defects in red gum. 10¢.

Miscellaneous Circulars:

- *5 MC. In the land of the ancient cliff dwellers. 10¢.
- *15 MC. Importance of forestry and national forests. 5¢.
- *16 MC. Tree distribution (in Nebraska) under Kincaid Act of 1911. 5¢.
- *31 MC. Let's know some trees. 15¢.
- *36 MC. Wichita National Forest and Game Preserve. 5¢.
- *39 MC. Report of National Conference on Utilization of Forest Products, Washington, D.C., Nov. 19 and 20, 1924. 20¢.
- 40 MC. White pine is profitable if protected from blister rust. 5¢.
- *47 MC. What the national forests mean to the intermountain region. 10¢.
- *48 MC. What national forests mean to Montana. 10¢.
- *66 MC. Identification of furniture woods. 25¢.
- *71 MC. National forest resources of Utah. 10¢.
- *75 MC. Harvesting timber crops in national forests of the East and South. 5¢.
- *82 MC. National forests of Wyoming. 10¢.
- 91 MC. Forestry program for women's organizations. 5¢.
- *94 MC. National forests of California. 15¢.
- *98 MC. The forest: A handbook for teachers. 10¢.
- 100 MC. Natural replacement of blight-killed chestnut. 5¢.

Circulars:

- *19 C. Forests and floods. 5¢.
- 21 C. America and the world's woodpile. 5¢.
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- 105 C. Knotty lumber for boxes. 10¢.
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- *236 C. Design factors affecting the strength and rigidity of wooden crates. 5¢.
- 239 C. Moisture content of wood in dwellings. 5¢.

Miscellaneous Publications:

- *18 MP. National forests of Colorado. 15¢.
- 24 MP. Growing pine timber for profit in the South; some examples, estimates, and opinions by lumbermen and others. 5¢.
- *26 MP. Why grow timber? 5¢.
- *41 MP. Pulp-timber resources of southeastern Alaska. 15¢.
- 45 MP. Forestry clubs for young people. 5¢.
- 46 MP. Strength of North American woods. 5¢.
- 50 MP. Volume, yield, and stand tables for second-growth southern pines. 25¢.
- *55 MP. Pocket guide to Alaska trees. 15¢.
- *61 MP. Forest plantation at Biltmore, N.C. 15¢.
- *82 MP. How the national forests of California benefit the State. 5¢.
- 87 MP. Profits from farm woods. 5¢.
- *90 MP. Range and forest resources of Utah: Their protection and use. 30¢.
- 99 MP. Government forest work in Utah. 10¢.
- 106 MP. Pine tree treasures (naval stores). 5¢.
- 107 MP. An explanation of American lumber standards. 5¢.
- *109 MP. Forest rangers' catechism. 15¢.
- *135 MP. Principal laws relating to the establishment and administration of the national forests and other Forest Service activities. 5¢.
- *162 MP. Our forests. What they are and what they mean to us. 5¢.

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Yearbook Separates:

- *779 Y. Farm woodlands and the war. 5¢.
- *835 Y. Wood for the nation. 5¢.
- *847 Y. How the public forests are handled. 5¢
- *856 Y. Putting wood waste to work. 5¢.
- 886 Y. Timber: Mine or crop? 15¢.
- *910 Y. Forestry and forest products. 5¢.

Miscellaneous:

- *Job-load analysis and planning of executive work in national forest administration. 25¢.
- *Forest trees of the Pacific slope. 60¢.
- *Instructions for appraising stumpage on national forests. 10¢.
- *Guidebook for the identification of woods used for ties and timber. 30¢.
- Vacation in the national forests. (Leaflet.)
- *Instructions for making timber surveys in national forests, including classification of forest types. 25¢.
- *Eastern and southern national forests. 10¢.
- *Pines for profit in the South. 5¢.

Bureau of Chemistry Bulletin:¹

- *113 Injury to vegetation and animal life by smelter wastes. 10¢.

Forest Service Bulletins:¹

- *6 Timber physics: Part I. Preliminary report. 20¢.
- *8 Timber physics: Part II. Progress report. 25¢.
- *10 Timber: An elementary discussion of the characteristics and properties of wood. 20¢.
- *36 The woodsman's handbook. 25¢.
- *52 Forest planting in western Kansas. 10¢.
- *58 The red gum. 10¢.
- *61 Terms used in forestry and logging. 5¢.
- *68 A working plan for forest lands in central Alabama. 10¢.
- *95 Uses of commercial woods of the United States: Part I. Cedars, cypresses, and sequoias. 10¢.
- *107 The preservation of mine timbers. 10¢.
- *116 Possibilities of western pines as a source of naval stores. 10¢.
- *118 Prolonging the life of crossties. 15¢.

Forest Service Circulars:¹

- *65 Norway spruce. 5¢.
- *135 Chestnut oak in the southern Appalachians. 5¢.

Department Reports:¹

- *114 Studies of the lumber industry: Part I. Some public and economic aspects of the lumber industry. 25¢.
- *115 Studies of the lumber industry: Part VIII. The distribution of softwood lumber in the Middle West. Wholesale distribution. 20¢.
- *116 Studies of the lumber industry: Part IX. The distribution of softwood lumber in the Middle West. Retail distribution. 15¢.
- *117 Studies of the lumber industry: Part XI. The substitution of other materials for wood. 15¢.

FRUITS

(See also Diseases; Insects; Marketing)

Farmers' Bulletins:

- 471 F. Grape propagation, pruning, and training. 5¢.
- 685 F. The native persimmon. 5¢.
- 727 F. Growing fruit for home use in the Great Plains area. 5¢.
- 776 F. Growing cherries east of Rocky Mountains. 5¢.
- 794 F. Citrus-fruit improvement. How to secure and use tree-performance records. 5¢.
- 917 F. Growing peaches—Sites and cultural methods. 5¢.
- 918 F. Peach varieties and their classification. 5¢.
- 1001 F. Growing fruit for home use. 5¢.
- 1031 F. Fig growing in the South Atlantic and Gulf States. 5¢.
- *1075 F. Unfermented grape juice. How to make it in the home. 5¢.
- 1204 F. Northwestern apple packing houses. 5¢.
- *1237 F. Pineapple culture in Florida. 5¢.
- *1249 F. Olive growing in southwestern United States. 5¢.
- 1284 F. Apple orchard renovation. 5¢.
- 1333 F. Pruning citrus trees in the Southwest. 5¢.
- 1343 F. Culture of citrus fruits in the Gulf States. 5¢.
- 1360 F. Apple growing east of the Mississippi River. 10¢.
- *1372 F. Plum and prune growing in Pacific States. 10¢.
- 1447 F. Citrus fruit growing in the Southwest. 5¢.
- 1454 F. Home utilization of muscadine grapes. 5¢.
- 1522 F. Home fruit garden on northern Great Plains. 5¢.
- 1676 F. Lubricating-oil sprays for use on dormant fruit trees. 5¢.

¹ These publications belong to an early series, the studies having been made and the material prepared for issuance prior to 1914.

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Farmers' Bulletins—Continued.

- 1687 F. Removing spray residue from apples and pears. 5¢.
 1689 F. Grape districts and varieties in the United States. 5¢.
 *1696 F. Deciduous-fruit improvement through tree-performance records. 5¢.

Department Bulletins:

- *223 D. Botanical character of leaves of date palm used in distinguishing cultivated varieties. 10¢.
 *271 D. Dates of Egypt and the Sudan. 20¢.
 *298 D. Peach supply and distribution in 1914. 5¢.
 *500 D. The cost of producing apples in western Colorado. 10¢.
 *587 D. The handling and storing of apples in the Pacific Northwest. 15¢.
 *623 D. Citrus-fruit improvement. A study of bud variation in the Washington navel orange. 15¢.
 *656 D. Concord grape juice: Manufacture and chemical composition. 5¢.
 732 D. Smyrna fig culture. 10¢.
 806 D. Peaches: Production estimates and important commercial districts and varieties. 10¢.
 *1006 D. Accounting records for sampling apples by weight. 5¢.
 *1125 D. Saidy date of Egypt: Variety of first rank adapted to commercial culture in United States. 15¢.
 *1159 D. Coloring Satsuma oranges in Alabama. 5¢.
 *1166 D. Apple by-products as stock foods. 5¢.
 1189 D. Fruits in West Virginia, Kentucky, and Tennessee. 15¢.
 1255 D. Inheritance of composition in fruit through vegetative propagation. Bud variants of Eureka and Lisbon lemons. 5¢.
 1290 D. Transportation of citrus fruit from Porto Rico. 5¢.
 1367 D. Coloring citrus fruit in Florida. 5¢.
 1406 D. The ripening, storage, and handling of apples. 20¢.
 *1435 D. Economic aspects of citrus-fruit growing in Polk County, Florida. 10¢.
 *1455 D. Incomes from farming and cost of apple production in the Shenandoah Valley, Frederick County, Va. 10¢.
 1457 D. Date culture in Egypt and the Sudan. 25¢.
 1477 D. Varietal characteristics of plums in Pacific States in relation to pruning. 45¢.
 *1483 D. Bud selection in the Valencia orange: Progeny tests of limb variation. 15¢.

Technical Bulletins:

- *54 T. Factors influencing the yield of apples in the Cumberland-Shenandoah region of Pennsylvania, Virginia, and West Virginia. 10¢.
 123 T. Bud selection in the Washington navel orange: Progeny tests of limb variations. 20¢.
 140 T. Investigations on the handling of Bartlett pears from Pacific Coast districts. 10¢.
 146 T. Testing phylloxera-resistant grape stocks in the vinifera regions of the United States. 20¢.
 *163 T. Inheritance of composition of Washington navel oranges of various strains propagated as bud variants. 5¢.
 196 T. The canning quality of certain commercially important eastern peaches. 10¢.
 *245 T. Arsenical and other fruit injuries of apples resulting from washing operation. 10¢.
 290 T. Investigations on harvesting and handling fall and winter pears. 15¢.
 *338 T. Relation of leaf area and position to quality of fruit and to bud differentiation in apples. 5¢.
 *370 T. Bruising and freezing of apples in storage and transit. 15¢.

Department Circulars:

- *58 DC. Fruit growing on northern Great Plains. 5¢.
 206 DC. A new feature of bud variation in citrus. 5¢.
 299 DC. Quarantine procedure to safeguard the introduction of citrus plants: A system of aseptic plant propagation. 5¢.
 310 DC. The solar propagating frame for rooting citrus and other subtropical plants. 5¢.
 387 DC. Pollination of the avocado. 5¢.
 *409 DC. Effect of spraying with fungicides on the keeping quality of Florida citrus fruits. 5¢.
 413 DC. Extent and causes of rejections of boxed apples from the State of Washington, seasons 1922 and 1925. 5¢.
 416 DC. Demand, marketing, and production of Oregon and Washington prunes. 10¢.
 *420 DC. The peach situation in the Southern States. 15¢.

Circulars:

- *49 C. Culture and outdoor winter storage of persimmons in vicinity of Peking, China. 5¢.
 59 C. Removal of spray residue from apples and pears in Pacific Northwest. 5¢.

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Circulars—Continued.

- 83 C. The handling of California table grapes. 5¢.
- 95 C. Subsoil an important factor in the growth of apple trees in the Ozarks. 10¢.
- *98 C. The Wonderful variety of pomegranate. 5¢.
- *181 C. New citrus hybrids. 20¢.
- 212 C. Bud variation in peaches. 10¢.
- 220 C. The Brainerd blackberry. 5¢.
- *303 C. Soil profile and root penetration as indicators of apple production in the Lake Shore District of western New York. 5¢.

Yearbook Separates:

- *618 Y. Promising new fruits. 15¢.
- *686 Y. Color as indication of picking maturity of fruits and vegetables. 10¢.
- *813 Y. Cooperative improvement of citrus varieties. 10¢.

Bureau of Plant Industry Bulletins:¹

- *56 Nomenclature of the apple: A catalog of the known varieties referred to in American publications from 1804 to 1904. 40¢.
- *126 Nomenclature of the pear: A catalog-index of the known varieties referred to in American publications from 1894 to 1907. 30¢.
- *192 Drought resistance of the olive in the Southwestern States. 15¢.
- *204 Agricultural explorations in the fruit and nut orchards of China. 15¢.
- *232 A preliminary study of the forced curing of lemons as practiced in California. 10¢.

FUR-BEARING ANIMALS**Farmers' Bulletins:**

- 587 F. Economic value of North American skunks. 5¢.
- 869 F. Muskrat as fur bearer. With notes on its use as food. 5¢.
- 1247 F. American moles as agricultural pests and as fur producers. 5¢.
- *1519 F. Rabbit skins for fur. 5¢.
- 1568 F. Rabbit parasites and diseases. 5¢.
- *1598 F. Mountain beavers in the Pacific Northwest: Their habits, economic status, and control. 5¢.
- 1716 F. Mole control. 5¢.
- 1717 F. Game laws for the season 1933-34. 5¢.

Leaflets:

- 8 L. Mink raising. 5¢.
- 27 L. Recommendations to beginners in fur farming. 5¢.
- 47 L. Hygiene in fox farming. 5¢.

Department Bulletins:

- *1151 D. Silver-fox farming. 15¢.
- 1350 D. Blue-fox farming in Alaska. 10¢.

Technicals Bulletins:

- 21 T. Beaver habits and experiments in beaver culture. 20¢.

Circulars:

- *82 C. Improved reindeer handling. 5¢.
- 107 C. The normal breeding season and gestation period of martens. 5¢.

Miscellaneous:

- The following publication belongs to an early series, the studies having been made and the material prepared for issuance prior to 1914:
- * The jack rabbits of the United States. (Bureau of Biological Survey bulletin 8.) 10¢.

GAME: PROPAGATION—PROTECTION**Farmers' Bulletins:**

- 1612 F. Propagation of aquatic game birds. 5¢.
- 1613 F. Propagation of upland game birds. 5¢.
- 1717 F. Game laws for the season 1933-34. 5¢.

Department Bulletins:

- *205 D. Eleven important wild-duck foods. 5¢.
- *465 D. Propagation of wild-duck foods. 10¢.
- *672 D. Duck sickness in Utah. 10¢.
- *720 D. Food habits of mallard ducks of United States. 5¢.
- *793 D. Lead poisoning in waterfowl. 5¢.
- *794 D. Waterfowl and their food plants in the sandhill region of Nebraska: Pt. 1, Waterfowl in Nebraska; Pt. 2, Wild-duck foods of the sandhill region of Nebraska. 15¢.
- *1089 D. Reindeer in Alaska. 25¢.
- *1145 D. Migration records from wild ducks and other birds banded in Salt Lake Valley, Utah. 5¢.
- 1346 D. Status of pronghorned antelope, 1922-24. 15¢.
- 1423 D. Progress of reindeer grazing investigations in Alaska. 15¢.

¹ These publications belong to an early series, the studies having been made and the material prepared for issuance prior to 1914.

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Technical Bulletins:

- 147 T. The habits and economic importance of alligators. 10¢.
 221 T. Wild-duck foods of North Dakota lakes. 15¢.

Department Circulars:

- *161 DC. Pisgah National Game Preserve, regulations and information for the public. 5¢.
 *182 DC. Migratory bird treaty act, extract from charge delivered to grand jury in district court of United States for middle district of Alabama at Opelika, Apr. 4, 1921. 5¢.
 *202 DC. Migratory bird treaty act, United States *v.* Joseph H. Lumpkin. 5¢.

Circulars:

- *96 C. Game birds suitable for naturalizing in the United States. 10¢.
 *118 C. Calculating waterfowl abundance on the basis of banding returns. 5¢.

Miscellaneous Publications:

- 51 MP. National wild-life reservation. 5¢.
 *159 MP. Winter feeding of wild life on northern farms. 5¢.
 *166 MP. Officials and organizations concerned with wild-life protection, 1933. 5¢.

Yearbook Separates:

- 723 Y. Great Plains waterfowl breeding grounds and their protection. 5¢.
 *836 Y. Conserving our wild animals and birds. 5¢.

Miscellaneous:

- Regulations relating to game, land fur animals, and birds in Alaska, 1933-34. (Alaska Game Commission Circular 11.) 5¢.

Bureau of Biological Survey Bulletins:¹

- *41 Chronology and index of the more important events in the American game protection, 1776-1911. 10¢.
 *42 Report of an expedition to Laysan Island in 1911. 10¢.
 *Acquisition of land by purchase, gift, or lease under the migratory-bird conservation act of February 18, 1929 (BI-1018). 5¢.

GARDENING: HOME—SCHOOL

(See also Diseases; Insects)

Farmers' Bulletins:

- *218 F. The school garden. 5¢.
 434 F. The home production of onion seed and sets. 5¢.
 879 F. Home storage of vegetables. 5¢.
 *934 F. Home gardening in the South. 5¢.
 1044 F. The city home garden. 5¢.
 1242 F. Permanent fruit and vegetable gardens. 5¢.
 *1396 F. The dasheen: A southern root crop for home use and market. 5¢.
 1673 F. The farm garden. 10¢.

GARDENING: TRUCK—GREENHOUSE

(See also Diseases; Insects; Marketing)

Farmers' Bulletins:

- 232 F. Okra: Its culture and uses. 5¢.
 354 F. Onion culture. 5¢.
 434 F. The home production of onion seed and sets. 5¢.
 1064 F. Production of late or main crop potatoes. 5¢.
 1253 F. Seed peas for the canner. 5¢.
 *1320 F. The production of cucumbers in greenhouses. 5¢.
 1338 F. Tomatoes as a truck crop. 5¢.
 *1396 F. The dasheen: A southern root crop for home use and market. 5¢.
 *1418 F. Lettuce growing in greenhouses. 5¢.
 1509 F. Bean growing in northern Idaho, eastern Washington, and eastern Oregon. 5¢.
 1563 F. Cucumber growing. 5¢.
 1609 F. Lettuce growing. 5¢.
 1620 F. Growing cucumbers for pickling. 5¢.
 1646 F. Asparagus growing. 5¢.
 1673 F. The farm garden. 10¢.

Department Bulletins:

- *1247 D. Taros and yautias: Promising new food plants for the South. 15¢.

Technical Bulletins:

- 33 T. The Jerusalem artichoke as a crop plant. 5¢.

Department Circulars:

- *125 DC. Forcing and blanching dasheen shoots. 5¢.
 *286 DC. The chayote: Its culture and uses. 5¢.
 311 DC. Cabbage-seed treatment. 5¢.

¹ These publications belong to an early series, the studies having been made and the material prepared for issuance prior to 1914.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Circulars:

- 77 C. Suggestions for paper-mulch trials. 5¢.
 *252 C. Commercial cabbage culture. 10¢.

Miscellaneous:

The following publication belongs to an early series, the studies having been made and the material prepared for issuance prior to 1914:

- *The chayote: A tropical vegetable. (Botany bulletin 28.) 10¢.

GRADES—STANDARDS—TESTS, ETC.**Leaflets:**

- 67 L. Beef grading and stamping service. 5¢.

Department Bulletins:

- *103 D. Alum in foods. 5¢.
 *168 D. Grades of commercial corn. 15¢.
 *182 D. Agricultural alcohol: Studies of its manufacture in Germany. 5¢.
 *286 D. Strength tests of structural timbers treated by commercial wood-preserving processes. 5¢.
 374 D. Intrinsic values of grain, cottonseed, flour, and similar products, based on dry-matter content. 5¢.
 574 D. Conversion of weights of mechanical separations of corn, wheat, and other grains into percentages. 5¢.
 *634 D. Physical and chemical study of the kafir kernel. 5¢.
 666 D. Effect of alkali treatment on cocoas. 5¢.
 740 D. Study of some of the chemical changes which occur in oysters during their preparation for market. 5¢.
 857 D. Modified Boerner sampler. 5¢.
 *878 D. Varietal experiments with spring wheat on the northern Great Plains. 15¢.
 882 D. Manufacturing and laboratory tests to produce an improved cotton airplane fabric. 10¢.
 897 D. Weight variation of package foods. 5¢.
 *946 D. Comparative spinning tests of Meade and sea-island cottons. 5¢.
 *980 D. Inspection and grading of hay. 5¢.
 *990 D. Preliminary manufacturing tests of the official cotton standards of the United States for color for upland tinged and stained cotton. 5¢.
 1009 D. Volume variation of bottled foods. 5¢.
 *1036 D. Coal-tar and water-gas tar creosotes: Their properties and methods of testing. 20¢.
 1065 D. The test weight of grain: A simple method of determining the accuracy of the testing apparatus. 5¢.
 *1114 D. Detection of hypochlorites and chloramins in milk and cream. 5¢.
 1148 D. Comparative spinning tests of superior varieties of cotton (grown under weevil conditions in the Southeastern States; crop of 1921). 5¢.
 *1152 D. Soy and related fermentations. 15¢.
 1203 D. Experimental production of straw gas. 5¢.
 1246 D. Market classes and grades of dressed beef. 25¢.
 1307 D. Absorption and retention of hydrocyanic acid by fumigated food products. Pt. 2. 5¢.
 1360 D. Market classes and grades of livestock. 15¢.
 1390 D. Chemistry and analysis of permitted coal-tar food dyes. 10¢.
 1460 D. Testing wheat for protein with a recommended method for making the test. 5¢.
 1464 D. Market classes and grades of cattle. 25¢.
 1470 D. Market classes and grades of dressed lamb and mutton. 15¢.
 1471 D. Oil content of flaxseed, with comparisons of tests for determining oil content. 10¢.
 1488 D. Manufacturing tests of cotton of the white grades of the universal standards for American cotton. 10¢.

Statistical Bulletins:

- 40 S. Grade, staple length, and tenderability of cotton in the United States, 1928-29 to 1931-32. 10¢.

Technical Bulletins:

- 1 T. Tests of methods for commercial standardization of raisins. 5¢.
 *8 T. Dietary scales and standards for measuring a family's nutritive needs. 5¢.
 *108 T. Stiffness in fabrics produced by different starches and starch mixtures, and a quantitative method for evaluating stiffness. 10¢.
 154 T. A method for determining the color of agricultural products. 10¢.
 *162 T. Tests of various aliphatic compounds as fumigants. 10¢.
 *212 T. Mechanical analysis of finely divided natural phosphates. 5¢.
 217 T. Beef production and quality as affected by grade of steer and feeding grain supplement on grass. 15¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Technical Bulletins—Continued.

- *239 T. Method of determining the volume and tonnage of hay-stacks. 10¢.
- 276 T. The fractionation of American gum spirits of turpentine and evaluation of its pinene content by optical means. 5¢.
- 310 TB. The visual spectrophotometry of dyes. 5¢.
- *346 T. The effect of concentration on the toxicity of chemicals to living organisms. 5¢.
- *358 T. Laboratory and field tests of concrete exposed to the action of sulphate waters. 10¢.

Department Circulars:

- 64 DC. How lumber is graded. 10¢.
- *238 DC. United States grades for potatoes. 5¢.
- 246 DC. United States grades for rye. 5¢.
- 278 DC. Commercial classification of American cotton, with reference to standards for grade, color, and staple. 10¢.

Miscellaneous Circulars:

- *28 MC. Tables for converting crude protein and ash content to uniform moisture base. 5¢.
- 83 MC. United States standard tobacco sizes. 10¢.

Circulars:

- 8 C. National standards for farm products. 15¢.
- 9 C. Bates laboratory aspirator. 5¢.
- 24 C. United States grades, color standards, and packing requirements for honey, recommended by Department of Agriculture. 5¢.
- 28 C. Market classes and grades of calves and vealers. 10¢.
- 103 C. Market classes and grades of dressed veal and calf carcasses. 25¢.
- *110 C. Specific gravity and Baume gravity tables for turpentine. 5¢.
- 139 C. Methods of procedure of soil analysis used in the Division of Soil Chemistry and Physics. 5¢.
- 158 C. A simple chemical test for predetermining the culinary quality of potatoes as affected by the accumulation of soluble sugars. 10¢.
- 164 C. An apparatus for determining the tenderness of certain canned fruits and vegetables. 5¢.
- *183 C. Factors for converting percentages of nitrogen in food and feeds into percentages of proteins. 5¢.
- 190 C. Buckwheat milling and its by-products. 5¢.
- *198 C. United States Food and Drug Administration methods of testing antiseptics and disinfectants. 10¢.
- *199 C. Cream-standardization tables. 5¢.
- 208 C. Market classes and grades of yearling beef. 20¢.
- 216 C. Production of organic acids from carbohydrates by fermentation: A digest of the literature. 10¢.
- 230 C. Chemical composition of certain kinds of sausage and other meat food products. 5¢.
- 288 C. Market classes and grades of pork carcasses and fresh pork cuts. 10¢.

Miscellaneous Publications:

- 10 MP. Establishment of standard grades for American cotton linters. 5¢.
- 33 MP. Advantages of standards for livestock and meats. 5¢.
- 75 MP. Method of testing the capacity of fruit and vegetable containers under the U.S. standard container act. 5¢.
- 107 MP. An explanation of American lumber standards. 5¢.
- 140 MP. Protein tests for wheat and oil tests for flax seed and soybeans. 10¢.
- 144 MP. Agricultural outlook for 1932. 10¢.
- *173 MP. Proposed revised Federal grain standards (including explanations). 10¢.

Yearbook Separates:

- 569 Y. Decomposition and its microscopical detection in some food products. 5¢.
- 811 Y. Why produce inspection pays. 5¢.

Miscellaneous:

Apply direct to the Bureau of Agricultural Economics for the following:

- Handbook of United States standards for beans.
- Handbook of United States standards for soybeans.
- Handbook of official grain standards for wheat, shelled corn, oats, feed oats, mixed feed oats, rye, grain sorghums, and barley.
- Handbook of official standards for milled rice, brown rice, and rough rice.
- Handbook of official hay standards, including straw standards.

Service and Regulatory Announcements:

- 92 Standards for cotton classification in the United States and abroad.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Service and Regulatory Announcements—Continued.

- 93 Rules and regulations of the Secretary of Agriculture governing the inspection and certification of fruits, vegetables, and other products: Amdt. 1—apples; amdt. 2—potatoes.
- 94 Official standards of the United States for American cotton linters.
- 98 Rules and regulations of the Secretary of Agriculture governing the investigation and certification of class, quality (grade), and condition of meats and meat food products.
- 99 Official United States standards for grades of carcass beef.
- 104 Rules and regulations of the Secretary of Agriculture under the United States standard container act of August 31, 1916.
- 108 United States standards for milled rice, brown rice, and rough rice.
- 109 Items relating to the administration of the United States cotton futures and cotton standards acts.
- 112 Official United States standards for grades of slaughter cattle.
- 113 Official United States standards for grades of vealers and slaughter calves.
- 114 Official United States standards for grades of veal and calf carcasses.
- 116 Rules and regulations of the Secretary of Agriculture under the United States standard container act of 1928.
- 118 Classification of leaf tobacco covering classes, types, and groups of grades.
- 123 Official United States standards for grades of lamb carcasses, yearling mutton, and mutton carcasses.
- 133 The official standards of the United States for the grading, sampling, and analyzing of cottonseed sold or offered for sale for crushing purposes.
- 135 Official standards of the United States for grades of wool and wool top and rules and regulations for distribution of practical forms of wool and wool top standards under wool standards act of May 17, 1928.
- 138 United States standards for grades of canned corn—whole-grain style.
- 139 United States standards for grades of canned corn—cream style.
- 140 United States standards for canned peas.
- 141 United States standards for canned tomatoes.
- 142 United States standards for canned snap beans.

NOTE.—See also charts and posters on grades and standards listed under Agricultural and Visual Education.

Forest Service Bulletins:¹

- *108 Tests of structural timbers. 20¢.

Bureau of Plant Industry Bulletins:¹

- *238 The measurement of the oxidase content of plant juices. 10¢.
- *264 The purpling chromogen of a Hawaiian *Dioscorea*. 10¢.

Bureau of Plant Industry Circulars:¹

- *72 A moisture tester for grain and other substances and how to use it. 5¢.

GRAINS

(See also name of grain, Diseases; Insects; Marketing; Standards; Experiment Station Work)

Farmers' Bulletins:

- *786 F. Fall-sown grains in Maryland and Virginia. 5¢.
- *793 F. Foxtail millet: Its culture and utilization. 5¢.
- *827 F. Shallu, or "Egyptian wheat": A late-maturing variety of sorghum. 5¢.
- *878 F. Grains for western North and South Dakota. 5¢.
- 1062 F. Buckwheat. 5¢.
- *1103 F. Growing irrigated grain in southern Idaho. 5¢.
- 1158 F. Growing and utilizing sorghums for forage. 5¢.
- 1162 F. Proso, or hog millet. 5¢.
- *1290 F. Bulk handling of grain. 5¢.
- 1429 F. Emmer and spelt. 5¢.
- 1464 F. Barley: Culture, uses, and varieties. 5¢.
- 1542 F. Cleaning grain on farms and in country elevators. 5¢.
- 1577 F. Harvesting grain sorghums. 5¢.
- 1636 F. Farm bulk storage for small grains. 5¢.

Department Bulletins:

- *137 D. Some distinction in our cultivated barleys with reference to their use in plant breeding. 5¢.
- 698 D. Grain-sorghum experiments in Panhandle of Texas. 15¢.
- *869 D. Inheritance of the length of internode in the rachis of the barley spike. 5¢.
- 1129 D. Physical and chemical study of milo and feterita kernels. 5¢.
- 1197 D. Experiment with emmer, spelt, and einkorn. 10¢.

¹ These publications belong to an early series; the studies having been made and the material prepared for issuance prior to 1914.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Department Bulletins—Continued.

- *1260 D. Sorghum experiments on the Great Plains. 15¢.
 *1334 D. Tests of barley varieties in America. 30¢.

Technical Bulletins:

- *96 T. Yields of barley in United States and Canada, 1922-1926. 15¢.
 *121 T. Methods of harvesting grain sorghums. 10¢.
 287 T. Farm-management problems in shifting from sack to bulk handling of grain in the Pacific Northwest. 15¢.

Department Circulars:

- *124 DC. Spur feterita. 5¢.
 *208 DC. Trebi barley, a superior variety for irrigated land. 5¢.

Miscellaneous Circulars:

- 56 MC. Cleaning grain with Bates aspirator. 10¢.

Circulars:

- 52 C. Varietal standardization of sorgo and the selection of seed. 10¢.
 119 C. Relation of dust fungicides to flow of small grains through drills and to drill injury. 5¢.
 127 C. Grain drying at a country elevator. 5¢.
 *161 C. Bulk and sack handling of grain in the Pacific Coast States. 10¢.

Miscellaneous Publications:

- 140 MP. Protein tests for wheat and oil tests for flax seed and soybeans. 10¢.

Yearbook Separates:

- 766 Y. Farmer and Federal grain supervision. 5¢.
 *769 Y. Place of rye in American agriculture. 5¢.

Miscellaneous:

NOTE.—See also charts on grains listed under Agricultural and Visual Education.

GRASSES—GRAZING—FORAGE CROPS—LEGUMES

(See also Diseases; Insects)

Farmers, Bulletins:

- *690 F. Field pea as a forage crop. 5¢.
 515 F. Vetches, with chapter on vetch seed and its adulterants. 5¢.
 *793 F. Foxtail millet, its culture and utilization. 5¢.
 945 F. Eradication of Bermuda grass. 5¢.
 990 F. Timothy. 5¢.
 *1072 F. Prickly pear as a stock feed. 5¢.
 *1125 F. Forage for the Cotton Belt, 1920. 5¢.
 1126 F. Sudan grass. 5¢.
 1148 F. Cowpeas: Culture and varieties. 5¢.
 1153 F. Cowpeas: Utilization. 5¢.
 *1158 F. Growing and utilizing sorghums for forage. 5¢.
 1254 F. Important cultivated grasses. 5¢.
 1276 F. Velvet bean. 5¢.
 1433 F. Cultivated grasses of secondary importance. 5¢.
 *1511 F. Forage crops and their culture in northern Nebraska and the Dakotas. 5¢.
 1520 F. Soybeans: Culture and varieties. 5¢.
 1537 F. Johnson grass as a weed. 5¢.
 1573 F. Legume hays for milk production. 5¢.
 1597 F. The production of Johnson grass for hay and pasturage. 5¢.
 1602 F. Reed canary grass. 5¢.
 1605 F. Soybean hay and seed production. 5¢.
 1617 F. Soybean utilization. 5¢.
 1663 F. Winter legumes for green manuring in the Cotton Belt. 5¢.

Leaflets:

- 91 L. Kudzu, a forage crop for the Southeast. 5¢.
 100 L. Lespedeza. 5c.

Department Bulletins:

- *461 D. Identification of grasses by their vegetative characters. 5¢.
 *580 D. Effects of grazing upon western yellow pine reproduction in the national forests of Arizona and New Mexico. 10¢.
 *772 D. Genera of grasses of United States with special reference to the economic species. 60¢.
 1170 D. Effects of different systems and intensities of grazing upon native vegetation at the Northern Great Plains Field Station. 15¢.
 *1174 D. Hungarian vetch. 5¢.
 *1194 D. Chemical and structural study of mesquite, carob, and honey locust beans. 5¢.
 *1244 D. Forage crops in relation to the agriculture of semiarid portion of the northern Great Plains. 10¢.
 *1288 D. Common vetch and its varieties. 5¢.
 *1345 D. Saltbushes and their allies in United States. 15¢.
 1386 D. Some panicle characters of sorgo. 20¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Department Bulletins—Continued.

- *1405 D. Grazing periods and forage production on national forests. 15¢.
 *1450 D. Life history of timothy. 25¢.

Technical Bulletins:

- *93 T. Four species of range plants not poisonous to livestock. 5¢.
 100 T. Respiration of sorghum grains. 5¢.
 113 T. Arrow grass (*Triglochin maritima*) as a stock-poisoning plant. 5¢.
 *114 T. Sleepy grass (*Stipa vaseyi*) as a stock-poisoning plant. 5¢.
 131 T. Spacing and date-of-seeding experiments with grain sorghums. 10¢.
 307 T. Crested wheatgrass as compared with brome grass, slender wheatgrass, and other hay and pasture crops for the northern Great Plains. 10¢.
 *352 T. Sudan grass as hay, silage, and pasture for dairy cows. 5¢.
 *367 T. The use of winter legumes in the Southeastern States. 5¢.

Department Circulars:

- *9 DC. Meadow fescue. 5¢.
 *44 DC. Italian rye-grass. 5¢.

Circulars:

- 62 C. The utilization of browse forage as summer range for cattle in southwestern Utah. 10¢.
 137 C. Crotalaria, a new legume for the South. 10¢.
 152 C. Monantha vetch. 5¢.
 178 C. Artificial reseeding on western mountain range lands. 15¢.

Miscellaneous Publications:

- *90 MP. Range and forest resources of Utah, their protection and use. 30¢.
 *101 MP. Important western browse plants. 45¢.
 110 MP. Glossary of botanical terms commonly used in range research. 15¢.

Yearbook Separates:

- *895 Y. Our forage resources. 20¢.

Bureau of Chemistry Bulletin:¹

- *113 Injury to vegetation and animal life by smelter wastes. 10¢.

Bureau of Plant Industry Bulletins:

- *33 North American species of *Leptochloa*. 15¢.
 *67 Range investigations in Arizona. 15¢.
 *179 The Florida velvet bean and related plants. 10¢.
 *253 The kaoliangs: a new group of grain sorghums. 15¢.

Bureau of Plant Industry Circulars:

- *67 Range investigations in Arizona. 15¢.
 *70 Additional notes on the number and distribution of native legumes in Nebraska and Kansas. 5¢.

GUAM**Guam Agricultural Experiment Station Bulletins:**

- *1 GAB. Para and paspalum: Two introduced grasses of Guam. 10¢.
 *3 GB. The sorghums in Guam. 10¢.
 *4 GB. Leguminous crops for Guam. 10¢.
 *5 GB. Effect of time of planting and fertilizers on the yield of vegetables. 5¢.

Guam Agricultural Experiment Station Extension Circulars:

- *2 GEC. The home garden for club members. 5¢.
 *3 GEC. Corn growing in Guam for club members. 5¢.

HAWAII**Hawaii Agricultural Experiment Station Bulletins:**

- *11 HB. The black wattle in Hawaii. 10¢.
 *23 HB. Leguminous crops for Hawaii. 10¢.
 *24 HB. The assimilation of nitrogen by rice. 5¢.
 *28 HB. The effect of manganese on pineapple plants and the ripening of the pineapple fruit. 20¢.
 *30 HB. The effect of heat on Hawaiian soils. 10¢.
 *33 HB. The organic nitrogen of Hawaiian soils. 5¢.
 *34 HB. Tobacco insects in Hawaii. 5¢.
 *35 HB. Absorption of fertilizer salts by Hawaiian soils. 5¢.
 *37 HB. Ammonification and nitrification in Hawaiian soils. 10¢.
 *38 HB. Effect of fertilizers on the physical properties of Hawaiian soils. 5¢.
 *39 HB. The biochemical decomposition of nitrogenous substances in soils. 5¢.
 *41 HB. Phosphate fertilizers for Hawaiian soils, and their availability. 10¢.
 *43 HB. Chemical studies of the efficiency of legumes as green manures in Hawaii. 5¢.

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Publications preceded by an asterisk (*) are obtainable by purchase only.

Hawaii Agricultural Experiment Station Bulletins—Continued.

- *44 HB. Litchi in Hawaii. 10¢.
- *45 HB. Potato diseases in Hawaii and their control. 20¢.
- *47 HB. Application of the principles of jelly making to Hawaiian fruits. 5¢.
- *48 HB. Swine raising in Hawaii. 5¢.
- *49 HB. The acid lime fruit in Hawaii. 10¢.
- *50 HB. The sweetpotato in Hawaii. 5¢.
- *51 HB. The Guatemalan avocado in Hawaii. 10¢.
- *52 HB. Manganese chlorosis of pineapples: Its cause and control. 15¢.
- *53 HB. The Hawaiian tree fern as a commercial source of starch. 10¢.
- *54 HB. Edible canna in Hawaii. 5¢.
- *55 HB. Banana culture in Hawaii. 20¢.
- *56 HB. Carbohydrate metabolism and its relation to growth in the edible canna. 10¢.
- *57 HB. Edible canna in the Waimea district of Hawaii.
- *58 HB. Mango culture in Hawaii. 20¢.
- *59 HB. The Macadamia nut in Hawaii. 10¢.
- *60 HB. The utilization and composition of oriental vegetables in Hawaii. 35¢.
- *61 HB. Papaya culture in Hawaii. 25¢.
- *62 HB. Physical properties of Hawaii soils with special reference to the colloidal fraction. 15¢.
- *63 HB. Physiochemical properties of edible-canna and potato starches. 10¢.
- *64 HB. The pigeon pea (*Cajanus indicus*) its improvement, culture, and utilization in Hawaii. 20¢.
- *65 HB. Range grasses of Hawaii. 5¢.

Hawaii Agricultural Experiment Station Extension Bulletins:

- * 9HEB. Hawaiian vegetables and their functions in the diet. 10¢.
- *10 HEB. Index to publications of the Hawaii Agricultural Experiment Station—July 1, 1901, to December 31, 1926. 10¢.

HAY—HAYMAKING

(See also Grasses; Marketing; Standards)

Farmers' Bulletins:

- *977 F. Hay caps. 5¢.
- 990 F. Timothy. 5¢.
- 1525 F. Effective haying equipment and practices for northern Plains and intermountain regions. 5¢.
- 1539 F. High-grade alfalfa hay: Methods of producing, baling, and loading for market. 5¢.
- 1573 F. Legume hays for milk production. 5¢.
- 1597 F. The production of Johnson grass for hay and pasturage. 5¢.
- 1605 F. Soybean hay and seed production. 5¢.
- 1615 F. Hay stackers and their use. 5¢.

Leaflets:

- 72 L. Measuring hay in stacks. 5¢.
- 99 L. Huron timothy. 5¢.

Department Bulletins:

- *980 D. Inspection and grading of hay. 5¢.

Technical Bulletins:

- *235 T. Quality of alfalfa hay in relation to curing practices. 10¢.
- *239 T. A method for determining the volume and tonnage of hay stacks. 10¢.

Yearbook Separates:

- 916 Y. Hay. 20¢.

HEALTH—SANITATION—RURAL SOCIOLOGY**Farmers' Bulletins:**

- *450 F. Some facts about malaria. 5¢.
- 602 F. Production of clean milk. 5¢.
- 954 F. Disinfection of stables. 5¢.
- 1173 F. Plans of rural community buildings. 5¢.
- 1227 F. Sewage and sewerage of farm homes. 5¢.
- *1245 F. Farmers' telephone companies, organization, financing, and management. 5¢.
- *1325 F. Social aspects of rural planning. 5¢.
- *1388 F. Rural planning: Social aspects of recreation places. 5¢.
- 1408 F. House fly and how to suppress it. 5¢.
- *1441 F. Rural planning—the village. 5¢.
- *1485 F. Rural hospitals. 5¢.
- 1559 F. Rural libraries. 5¢.
- 1622 F. Rural buildings for business and social uses. 5¢.
- 1667 F. Rural community fire departments. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Department Bulletins:

- *1098 D. Impounding water in a bayou to control breeding of malaria mosquitoes. 15¢.
 1382 D. Relation between ability to pay and standard of living among farmers. 5¢.
 1466 D. The farmer's standard of living. 10¢.

Miscellaneous Publications:

- 116 MP. Rural standards of living, a selected bibliography. 15¢.

Yearbook Separates:

- 626 Y. Organization of rural interests. 5¢.
 644 Y. American farm woman as she sees herself. 5¢.
 *812 Y. Reorganization of the country school. 5¢.

Miscellaneous:

- What to do in case of accident. 15¢.

Bureau of Plant Industry Bulletins:¹

- *100 Miscellaneous papers: Part VII. The effect of copper upon water bacteria. 5¢.
 *115 The disinfection of sewage effluents for the protection of public water supplies. 10¢.

HOGS

(See also Diseases; Insects; Marketing)

Farmers' Bulletins:

- *985 F. Systems of hog farming in Southeastern States. 5¢.
 1133 F. Feeding garbage to hogs. 5¢.
 1186 F. Pork on the farm, killing, curing, and canning. 5¢.
 1263 F. Breeds of swine. 5¢.
 1357 F. Castration of hogs. 5¢.
 1437 F. Swine production. 5¢.
 1455 F. Fitting, showing, and judging hogs. 5¢.
 1487 F. Practical hog houses. 5¢.
 1490 F. Hog-lot equipment. 5¢.
 1504 F. Self-feeding versus hand-feeding of sows and litters. 5¢.

Department Bulletins:

- 752 D. Utilization of irrigated field crops for hog pasturing. 10¢.
 *1381 D. Cost of producing hogs in Iowa and Illinois, 1921-22. 20¢.
 1407 D. Some results of soft-pork investigations, I. 15¢.
 *1440 D. Factors affecting price of hogs. 15¢.
 *1492 D. Some results of soft-pork investigations, II. 15¢.

Technical Bulletins:

- 44 T. Swine sanitation system as developed by Bureau of Animal Industry in McLean County, Ill. 5¢.
 *359 T. Farmers' response to price in hog production and marketing. 5¢.
 *368 T. Changes in quantity and composition of fat in hogs fed a peanut ration followed by a corn ration. 5¢.
 *374 T. Effectiveness of the swine sanitation system in the South. 5¢.
 *386 T. Comparison of schedule and account methods of collecting data on family living. 5¢.

Miscellaneous Circulars:

- 57 MC. Tattoo method of marking hogs and its use. 5¢.

Yearbook Separates:

- 841 Y. Runts, and the remedy. 5¢.

Miscellaneous:

The following publication belongs to an early series, the studies having been made and the material prepared for issuance prior to 1914:

- *Injury to vegetation and animal life by smelter wastes. (Bureau of Chemistry Bulletin 113.) 10¢.

HOME ECONOMICS

(See also Canning; Foods)

Farmers' Bulletins:

- *927 F. Farm home conveniences. 5¢.
 1157 F. Waterproofing and mildewproofing cotton duck. 5¢.
 1180 F. Housecleaning made easier. 5¢.
 1219 F. Floors and floor covering. 5¢.
 1374 F. Care of food in the home. 5¢.
 1449 F. Selection of cotton fabrics. 5¢.
 1474 F. Stain removal from fabrics: Home methods. 5¢.
 1497 F. Methods and equipment for home laundering. 5¢.
 1513 F. Convenient kitchens. 5¢.
 1530 F. Fitting dresses and blouses. 5¢.
 1553 F. Planning and recording family expenditures. 5¢.
 1633 F. Window curtaining. 5¢.

Leaflets:

- 52 L. Suits for small boys. 5¢.
 *54 L. Play suits for winter. 5¢.

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Publications preceded by an asterisk (*) are obtainable by purchase only.

Leaflets—Continued.

- 63 L. Ensembles for sunny days. 5¢.
 76 L. Slip covers. 5¢.
 79 L. Rompers. 5¢.
 80 L. Dresses for little girls. 5¢.

Technical Bulletins:

- *108 T. Stiffness in fabrics produced by different starches and starch mixtures, and a quantitative method for evaluating stiffness. 10¢.

Department Circulars:

- *2 DC. Sewing for girls' club work. 5¢.
 *207 DC. The paper dress form. 5¢.

Miscellaneous Circulars:

- *90 MC. Score cards for judging clothing selection and construction. 5¢.

Miscellaneous Publications:

- *4 MP. Present trends in home sewing. 5¢.
 *31 MP. Changing uses of textile fabrics in clothing and household articles. 10¢.
 62 MP. Bibliography on the relation of clothing to health. 25¢.
 78 MP. An annotated list of literature references on garment sizes and body measurements. 10¢.
 *167 MP. A fruit and vegetable buying guide for consumers. 5¢.

HORSES—MULES

(See also Insects; Diseases; Feeds)

Farmers' Bulletins:

- 619 F. Breeds of draft horses. 5¢.
 779 F. How to select a sound horse. 5¢.
 803 F. Horse-breeding suggestions for farmers. 5¢.
 952 F. Breeds of light horses. 5¢.
 1030 F. Feeding horses. 5¢.
 1341 F. Mule production. 5¢.
 1368 F. Breaking and training colts. 5¢.
 1419 F. Care and management of farm work horses. 5¢.
 1535 F. Farm horseshoeing. 5¢.

Department Circulars:

- *199 DC. Breeding Morgan horses at U.S. Morgan Horse Farm. 10¢.

Yearbook Separates:

- 692 Y. Stallion legislation and horsebreeding industry. 5¢.

INSECTICIDES, FUNGICIDES, DISINFECTANTS**Farmers, Bulletins:**

- 799 F. Carbon disulphid as an insecticide. 5¢.
 926 F. Some common disinfectants. 5¢.
 954 F. Disinfection of stables. 5¢.
 994 F. Commercial Bordeaux mixtures. How to calculate their value. 5¢.
 *1285 F. Lime-sulphur concentrates, preparation, uses, and designs for plants. 5¢.
 1666 F. Insecticides, equipment, and methods for controlling orchard insect pests. 10¢.
 1676 F. Lubricating-oil sprays for use on dormant fruit trees. 5¢.

Department Bulletins:

- *197 D. Homemade lime-sulphur concentrate. 5¢.
 *707 D. Results of experiments with miscellaneous substances against bedbugs, cockroaches, clothes moths, carpet beetles. 5¢.
 *750 D. Methods of preparing commercial grade of calcium arsenate. 5¢.
 795 D. Adulteration of insect powder with powdered daisy flowers. 5¢.
 824 D. Insect powder [or pyrethrum powder]. 20¢.
 1115 D. Chemical changes in calcium arsenate during storage. 10¢.
 *1201 D. Plants tested for or reported to possess insecticidal properties. 10¢.
 *1217 D. Mixing emulsified mineral lubricating oils with deep-well waters and lime-sulphur solutions. 5¢.
 1308 D. Chemical and physical methods for control of saponified cresol solutions. 5¢.
 *1312 D. Loss of nicotine from nicotine dust during storage. 5¢.
 1389 D. Deterioration of commercially packed chlorinated lime. 5¢.

Technical Bulletins:

- *80 T. Tests of blowfly baits and repellents during 1926. 5¢.
 111 T. Fish oil as an adhesive in lead-arsenate sprays. 10¢.
 *162 T. Tests of various aliphatic compounds as fumigants. 10¢.
 198 T. Relative insecticidal value of commercial grades of pyrethrum. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Technical Bulletins—Continued.

- 274 T. Hot water as an insecticide for the Japanese beetle in soil and its effect on the roots of nursery plants. 15¢.
 299 T. Repellency to the Japanese beetle of extracts made from plants immune to attack. 5¢.

Circulars:

- 7 C. Apparatus for rapid vaporization of carbon disulphide. 5¢.
 *116 C. Calcium arsenate dusting as a cause of aphid infestation. 5¢.
 119 C. Relation of dust fungicides to flow of small grains through drills and to drill injury. 5¢.
 *198 C. United States Food and Drug Administration methods of testing antiseptics and disinfectants. 10¢.

Miscellaneous Publications:

- 117 MP. Bibliography of ethylene dichloride. 10¢.

INSECTS: ANIMAL—POULTRY**Farmers' Bulletins:**

- 798 F. Sheep-tick and its eradication by dipping. 5¢.
 801 F. Mites and lice on poultry. 5¢.
 857 F. Screw-worms and other maggots affecting animals. 5¢.
 897 F. Fleas and their control. 5¢.
 909 F. Cattle-lice and their eradication. 5¢.
 980 F. Spinose ear tick, and methods of treating infested animals. 5¢.
 1057 F. Cattle-fever ticks, and methods of eradication. 5¢.
 1070 F. The fowl tick and how premises may be freed from it. 5¢.
 1085 F. Hog lice and hog mange. Methods of control and eradication. 5¢.
 1097 F. Stable fly, how to prevent its annoyance and its losses to livestock. 5¢.
 1330 F. Parasites and parasitic diseases of sheep. 5¢.
 1503 F. Horse bots and their control. 5¢.
 1596 F. Cattle grubs or heel flies, with suggestions for their control. 5¢.
 *1625 F. Tick fever. 5¢.
 1652 F. Diseases and parasites of poultry. 5¢.

Leaflets:

- 5 L. Prevention of round worms in pigs. 5¢.
 13 L. Sheep and goat lice, methods of control and eradication. 5¢.
 89 L. Controlling stomach worms in sheep and lambs. 5¢.

Department Bulletins:

- *1218 D. Horseflies, biologies and relation to western agriculture. 10¢.
 *1369 D. Cattle grubs or ox warbles, their biologies and suggestions for control. 25¢.
 1472 D. Chemotropic tests with screw-worm fly. 5¢.

Technical Bulletins:

- 52 T. Classification of higher groups and genera of coccid family Margerodidae. 50¢.
 *60 T. Ineffectiveness of internal medication of poultry for control of external parasites. 5¢.
 227 T. Developmental stages of some nematodes of the Spiruroidea parasitic in poultry and game birds. 15¢.
 *365 T. Biology of *Brachymeria fonscolombei* (Dufour), a Hymenopterous parasite of blowfly larvae. 5¢.

Department Circulars:

- 184 DC. State laws and court decisions relating to cattle-tick eradication. 5¢.
 294 DC. Rat mite attacking man. 5¢.
 338 DC. Parasites and parasitic diseases of dogs. 10¢.

Circulars:

- 18 C. Experimental dissemination of Tabanid egg parasite *Phanurus emersoni* Girault and biological notes on the species. 5¢.
 126 C. Pathological conditions ascribed to nematodes in poultry. 5¢.
 *148 C. Parasites and parasitic diseases of horses. 5¢.

Miscellaneous Publications:

- 25 MP. Calendar of livestock parasites. 5¢.
 79 MP. Anthelmintics for removal of thorn-headed worms in swine. 5¢.

Miscellaneous:

- *Story of the cattle fever tick. 10¢.
 *How to get the last tick. 5¢.

NOTE.—See also posters on parasites of animals listed under Agricultural and Visual Education.

The following publications belong to an early series, the studies having been made and the material prepared for issuance prior to 1914:

Publications preceded by an asterisk (*) are obtainable by purchase only.

Miscellaneous—Continued.

- *The structure of certain dipterous larvae with particular reference to those in human foods. (Bureau of Entomology Bulletin 22—technical series.) 10¢.
- *Mites and lice on poultry. (Bureau of Entomology Circular 92.) 5¢.
- *Important insects which may affect the health of men or animals engaged in military operations. (Secretary Circular 61.) 5¢.

INSECTS: BERRIES—FRUITS—NUTS**Farmers' Bulletins:**

- 650 F. San Jose scale and its control. 5¢.
- *662 F. Apple-tree tent caterpillar. 5¢.
- 675 F. The roundheaded apple-tree borer. 5¢.
- 722 F. Leaf blister mite of pear and apple. 5¢.
- *723 F. Oyster-shell scale and scurfy scale. 5¢.
- *860 F. Cranberry insect problems and suggestions for solving them. 5¢.
- 933 F. Spraying for the control of insects and mites attacking citrus trees in Florida. 5¢.
- *1011 F. The woolly white fly in Florida citrus groves. 5¢.
- *1065 F. The flat-headed apple-tree borer. 5¢.
- 1128 F. Control of aphids injurious to orchard fruits, currant, gooseberry, and grape. 5¢.
- 1246 F. The peach borer. How to prevent or lessen its ravages. The para-dichlorobenzene treatment. 5¢.
- *1257 F. Insects injurious to mango in Florida and how to combat them. 5¢.
- 1261 F. Avocado: Its insect enemies and how to combat them. 5¢.
- 1286 F. Red-necked raspberry cane borer. 5¢.
- 1309 F. Control of the common mealy bug on citrus in California. 5¢.
- 1321 F. Fumigation of citrus trees for control of insect pests. 5¢.
- 1326 F. Control of codling moth in Pacific Northwest. 5¢.
- 1557 F. Insects attacking the peach in the South and how to control them. 5¢.
- 1654 F. Insects of the pecan and how to combat them. 5¢.
- 1666 F. Insecticides, equipment, and methods for controlling orchard insect pests. 10¢.

Department Bulletins:

- *88 D. Control of codling moth in Pecos Valley, New Mexico. 5¢.
- *161 D. Mediterranean fruit fly in Bermuda. 5¢.
- *173 D. Life history and habits of pear thrips in California. 15¢.
- *263 D. The cranberry rootworm. 5¢.
- *351 D. Terrapin scale. An important insect enemy of peach orchards. 15¢.
- *554 D. The cranberry girdler. 10¢.
- 640 D. The Mediterranean fruit fly. 15¢.
- *796 D. Use of toxic gases as a possible means of control of the peach-tree borer. 5¢.
- *885 D. Black fly of citrus and other subtropical plants. 20¢.
- *903 D. The grape phylloxera in California. 30¢.
- *911 D. Life history of the grape-berry moth in northern Ohio. 10¢.
- *914 D. The red-banded leaf roller. 5¢.
- *959 D. Experiments and suggestions for the control of the codling moth in the Grand Valley of Colorado. 10¢.
- *965 D. Control of the Argentine ant in California citrus orchards. 10¢.
- *992 D. Walnut husk-maggot. 5¢.
- *1032 D. The blackhead fireworm of cranberry on the Pacific Coast. 15¢.
- *1040 D. Control of citrophilus mealybug. 5¢.
- *1081 D. Biology of the papaya fruit fly in Florida. 5¢.
- *1093 D. Gipsy moth on cranberry bogs. 10¢.
- *1117 D. Natural control of the citrus mealybug in Florida. 5¢.
- *1235 D. Life history of codling moth in Yakima Valley of Washington. 15¢.
- *1238 D. Canker-worms. 10¢.
- *1273 D. Bud moth. 5¢.
- *1303 D. The pecan nut case-bearer. 5¢.
- *1371 D. Effectiveness against San Jose scale of dry substitutes for liquid lime-sulphur. 5¢.
- *1482 D. Experiments on the control of the plum curculio, brown rot, and scab, attacking the peach in Georgia. 5¢.

Technical Bulletins:

- *15 T. The citrus insects of Japan. 5¢.
- 20 T. Study of phyloxera infestation in California as related to types of soils. 25¢.
- *25 T. Experiments for control of European red mite and other fruit-tree mites. 10¢.
- 42 T. Life history of the codling moth in Delaware. 15¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Technical Bulletins—Continued.

- *58 T. Paradichlorobenzene experiments in the South for peach-borer control. 10¢.
- 66 T. The apple maggot. 15¢.
- *83 T. Pacific flathead borer. 15¢.
- *86 T. Imported insect enemies of the gipsy moth and the brown-tail moth. 50¢.
- 89 T. Biology of European red mite in Pacific Northwest. 15¢.
- *90 T. Life history of the codling moth in northern Georgia. 20¢.
- 130 T. The chestnut curculios. 10¢.
- 152 T. Life history of the oriental peach moth in Georgia. 5¢.
- 176 T. The citrus rust mite and its control. 15¢.
- 183 T. Life history of the oriental peach moth at Riverton, N.J., in relation to temperature. 10¢.
- 188 T. Life history and habits of the plum curculio in the Georgia peach belt. 25¢.
- 215 T. A biological study of *Trichogramma minutum* Riley as an egg parasite of the oriental fruit moth. 5¢.
- 242 T. Biology of the Indian-meal moth on dried fruits in California. 5¢.
- 252 T. Two citrus leaf miners of the Far East. 5¢.
- 253 T. Petroleum oils and oil emulsions as insecticides, their use against the San Jose scale on peach trees in the South. 10¢.
- 255 T. Life history of the codling moth in the Rogue River Valley of Oregon. 10¢.
- 263 T. The leafhopper attacking apples in the Ozarks. 10¢.
- 275 T. The biology and control of the blueberry maggot in Washington County, Maine. 25¢.
- 281 T. Experiments with insecticides for codling-moth control. 15¢.
- 320 T. The citrus blackfly in Asia, and the importation of its natural enemies into tropical America. 10¢.
- *373 T. Studies of fluorine compounds for controlling the codling moth. 5¢.

Department Circulars:

- *263 DC. Preliminary report on control of San Jose scale with lubricating-oil emulsion. 5¢.
- *282 DC. The Australian tomato weevil introduced in the South. (A preliminary account.) 5¢.
- 395 DC. Oriental peach moth. 10¢.

Circulars:

- 106 C. Tree hoppers and their control in the orchards of the Pacific Northwest. 5¢.
- 109 C. Parasitism of the Mediterranean fruit fly in Hawaii, 1922-1924. 5¢.
- *123 C. Comparative study of dusting by means of airplane and ground machine for control of blueberry maggot. 5¢.
- 157 C. Fig insects in California. 20¢.
- 172 C. The control of the lesser peach borer with paradichlorobenzene solutions. 5¢.
- *175 C. Experiments for the control of the San Jose scale with lubricating-oil emulsions in the Pacific Northwest. 5¢.
- 196 C. Blueberry maggot and its control in eastern Maine. 5¢.
- 234 C. Black pit of the pecan and some insects causing it. 5¢.
- 235 C. Injury to peach fruits by gipsy-moth larvae. 5¢.
- 237 C. Control of the Japanese beetle on fruit and shade trees. 5¢.
- *255 C. Observations on the Mexican fruit fly and some related species in Cuernavaca, Mexico, in 1928 and 1929. 5¢.
- *266 C. The citrus insects in tropical Asia. 5¢.
- *270 C. Orchard insects of the Pacific Northwest and their control. 10¢.
- *277 C. The oriental moth (*Cnidocampa flavescent* Walk.) and its control. 5¢.

Bureau of Entomology Bulletins (New Series):¹

- *68 Papers on deciduous fruit insects and insecticides: Part I. The pear thrips. 10¢.
- *76 Fumigation for the citrus white fly as adapted to Florida conditions. 15¢.
- *80 Papers on deciduous fruit insects and insecticides: I. The codling moth in the Ozarks. 10¢. II. The cigar case borer. 10¢. III. Additional observations on the lesser apple worm. 5¢. V. The nut feeding habits of the codling moth. 5¢. VI. The life history of the codling moth in northwestern Pennsylvania. 10¢.
- *87 Report on the field work against the gypsy moth and the brown-tail moth. 35¢.
- *90 Hydrocyanic-acid gas fumigation in California: I. Fumigation of citrus trees. 20¢.
- *92 White flies injurious to citrus in Florida. 25¢.

¹ These publications belong to an early series, the studies having been made and the material prepared for issuance prior to 1914.

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Bureau of Entomology Bulletins—Continued.

- *97 Papers on deciduous fruit insects and insecticides: I. Spraying experiments against the grape leafhopper in the Lake Erie Valley. 5¢. II. Life history of the codling moth and its control on pear in California. 10¢. VI. Notes on the peach bud mite, an enemy of peach nursery stock. 10¢.
- *99. Papers on insects injurious to citrus and other subtropical fruits: I. The orange thrips. 5¢. II. The red-banded thrips. 5¢.
- *102 Natural control of white flies in Florida. 20¢.
- *116 Papers on deciduous fruit insects and insecticides: Part II. The grape-berry moth. 15¢.
- *120 Report of a trip to India and the Orient in search of the natural enemies of the citrus white fly. 15¢.

Bureau of Entomology Bulletins, Technical Series:¹

- *16 Papers on Coccidae or scale insects: I. The national collection of Coccidae. 5¢. V. The genus *Fiorinia* in the United States. 10¢.
- VII. An index to catalogues of recently described Coccidae. 5¢.

Bureau of Entomology Circulars:¹

- *121 The oyster-shell scale and scurfy scale. 5¢.
- *141 The mango weevil. 5¢.

INSECTS: FIBER—FORAGE—GRAIN CROPS**Farmers' Bulletins:**

- 725 F. Wireworms destructive to cereal and forage crops.
- 731 F. True army worm and its control. 5¢.
- 739 F. Cutworms and their control in corn and other cereal crops. 5¢.
- 752 F. Fall army worm, or "grassworm", and its control. 5¢.
- *762 F. False chinch-bug and measures for controlling it. 5¢.
- 831 F. The red spider on cotton and how to control it. 5¢.
- 835 F. How to detect insect outbreaks and save grain crops. 5¢.
- 875 F. Rough-headed cornstalk beetle in Southern States and its control. 5¢.
- 891 F. Corn-root aphid and methods of controlling it. 5¢.
- *915 F. How to reduce weevil waste in southern corn. 5¢.
- 944 F. Controlling the garden webworm in alfalfa fields. 5¢.
- 971 F. Control of clover-flower midge. 5¢.
- 982 F. Control of the green clover worm in alfalfa fields. 5¢.
- 1003 F. How to control billbugs destructive to cereal and forage crops. 5¢.
- 1006 F. The wheat jointworm and its control. 5¢.
- 1025 F. The larger corn stalk-borer. 5¢.
- 1029 F. Conserving corn from weevils in the Gulf Coast States. 5¢.
- 1094 F. The alfalfa caterpillar. 5¢.
- 1156 F. Angoumois grain moth. 5¢.
- *1206 F. Corn earworm as an enemy of vetch. 5¢.
- 1217 F. Green-bug or spring aphid: How to prevent its periodical outbreak. 5¢.
- 1258 F. Webworms injurious to cereal and forage crops and their control. 5¢.
- 1260 F. Stored-grain pests. 5¢.
- 1323 F. The wheat strawworm and its control. 5¢.
- 1329 F. Boll-weevil problem. 5¢.
- 1483 F. Control of insect pests in stored grain. 10¢.
- 1484 F. The clover leaf weevil and its control. 5¢.
- 1498 F. Chinch bug, how to fight it. 5¢.
- 1528 F. The control of the alfalfa weevil. 5¢.
- 1543 F. Insects injurious to the rice crop. 5¢.
- 1548 F. European corn borer, present status and methods of control. 5¢.
- 1566 F. Sorghum midge, with control suggestions. 5¢.
- 1595 F. Bollworm or corn earworm as a cotton pest. 5¢.
- 1607 F. The nematode disease of wheat and rye. 5¢.
- 1627 F. The Hessian fly and how losses from it can be avoided. 5¢.
- 1642 F. Chalcid control in alfalfa-seed production. 5¢.
- 1651 F. Corn earworm as an enemy of field corn in the Eastern States. 5¢.
- 1657 F. The Great Basin wireworm in the Pacific Northwest. 5¢.
- 1662 F. Husker-shredders in corn-borer control. 5¢.
- 1681 F. Adjusting Corn-Belt farming to meet corn-borer conditions. 5¢.
- 1688 F. Insect enemies of the cotton plant. 5¢.
- 1691 F. How to control grasshoppers in cereal and forage crops. 5¢.

Leaflets:

- 12 L. The striped blister beetle on soybeans. 5¢.
- *37 L. Poisoning the cotton boll weevil. 5¢.
- 53 L. Cotton-louse control. 5¢.

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Publications preceded by an asterisk (*) are obtainable by purchase only.

Department Bulletins:

- *5 D. The Southern corn rootworm, or budworm. 5¢.
- *112 D. Oat aphid. 5¢.
- *113 D. Lesser bud-moth. 5¢.
- *436 D. The desert corn flea-beetle. 5¢.
- *539 D. The lesser corn stalk-borer. 5¢.
- *689 D. Southern green plant-bug. 10¢.
- *734 D. Nematode galls as factor in marketing and milling wheat. 5¢.
- *779 D. The grain bug. 5¢.
- *834 D. Black grain-stem sawfly of Europe in United States. 5¢.
- *842 D. The nematode disease of wheat caused by *Tylenchus tritici*. 20¢.
- *889 D. Clover stem-borer as an alfalfa pest. 5¢.
- *891 D. Green June beetle. 20¢.
- *922 D. Clover-leaf weevil. 5¢.
- *1008 D. Rate of multiplication of the Hessian fly. 5¢.
- *1016 D. Bionomics of the chinch bug. 5¢.
- *1085 D. Broad-nosed grain weevil. 5¢.
- *1137 D. Symptoms of wheat rosette compared with those produced by certain insects. 5¢.
- *1153 D. Boll-weevil cotton in Texas. 5¢.
- *1229 D. Stem nematode *Tylenchus dipsaci* on wild hosts in Northwest. 5¢.
- *1267 D. The rough-headed corn stalk-beetle. 10¢.
- *1313 D. Fumigation against grain weevils with various volatile organic compounds. 10¢.
- *1336 D. Biological studies of green clover worm. 5¢.
- *1374 D. Studies of the pink bollworm in Mexico. 15¢.
- *1393 D. Granary weevil. 10¢.
- 1397 D. Pink bollworm with special reference to steps taken by Department of Agriculture to prevent its establishment in United States. 10¢.
- 1426 D. The clover root borer. 10¢.
- 1428 D. The cadelle. 10¢.
- 1476 D. A progress report on the investigations of the European corn borer. 35¢.

Technical Bulletins:

- *4 T. *Lygus elisus*: A pest of the cotton regions in Arizona and California. 5¢.
- *19 T. Parasites of pink bollworm in Hawaii. 5¢.
- 31 T. Larger sod webworm. 5¢.
- 34 T. The fall army worm. 25¢.
- 53 T. Scouting, quarantine, and control for European corn borer, 1917-1926. 30¢.
- 59 T. The European corn borer and its controlling factors in Europe. 10¢.
- 77 T. The host plants of the European corn borer in New England. 30¢.
- 81 T. Hessian fly in California. 5¢.
- *90 T. Life history of the codling moth in northern Georgia. 20¢.
- *98 T. Imported parasites of the European corn borer in America. 10¢.
- 112 T. Biology of the cotton boll weevil at Florence, South Carolina. 20¢.
- 135 T. The corn borer in central Europe. A review of investigations from 1924 to 1927. 20¢.
- 138 T. Studies of the fall army worm in the Gulf Coast district of Texas. 10¢.
- 157 T. Western grass-stem sawfly, a pest of small grain. 5¢.
- 161 T. Life history, habits, and control of Mormon cricket. 10¢.
- 173 T. The bluegrass webworm. 10¢.
- 190 T. A study of the lesser migratory grasshopper. 10¢.
- 230 T. *Macrocentrus gifuensis* Ashmead, a polyembryonic braconid parasite in the European corn borer. 15¢.
- 233 T. *Apanteles thompsoni* Lyle, a braconid parasite of the European corn borer. 10¢.
- 294 T. The biology and morphology of the braconid *Chelonus annulipes* Wesm., a parasite of the European corn borer. 10¢.
- 296 T. Feeding punctures of mirids and other plant-sucking insects and their effect on cotton. 5¢.
- 306 T. Biology and control of the corn-leaf aphid with reference to the Southwestern States. 5¢.
- 325 T. Biology and the control of the black vine weevil. 5¢.
- *331 T. *Phaogenes nigridens* Wesm., an important ichneumonid parasite of the pupa of the European corn borer. 5¢.
- *351 T. Life history of the Angoumois grain moth in Maryland. 5¢.
- *361 T. The Hessian fly in the Pacific Northwest. 5¢.
- *395 T. Subfreezing temperatures lethal to the European corn borer infesting green ears of sweet corn. 5¢.

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Department Circulars:

- 172 DC. The range crane flies in California. 5¢.
 210 DC. Dispersion of the boll weevil in 1921. 5¢.
 262 DC. Length of the dormancy period of the sugar-beet nematode in Utah. 5¢.
 266 DC. Dispersion of the boll weevil in 1922. 5¢.
 *301 DC. Introduction of parasites of the alfalfa weevil into the United States. 5¢.
 361 DC. The cotton hopper, or so-called "cotton flea." 5¢.
 *363 DC. The Japanese beetle. 25¢.

Miscellaneous Circulars:

- 46 MC. A bibliography of the European corn borer (*Pyrausta nubilalis* Hbn.). 10¢.
 *102 MC. Pertinent information regarding 1927 spring clean-up of areas quarantined on account of European corn borer, regulations, recommendations, suggestions, outline of plan, extra labor allowance, penalties, assessments, and equipment. 5¢.

Circulars:

- 14 C. Status of imported parasites of the European corn borer. 5¢.
 51 C. The chinch bug in relation to St. Augustine grass. 5¢.
 71 C. Heat and time of exposure necessary to kill larvae of the European corn borer in ear corn. 5¢.
 *75 C. The true cricket—A serious cotton pest in California. 5¢.
 132 C. Fighting the corn borer with machinery in the two-generation area. 15¢.
 165 C. Plowing as a control measure for the European corn borer in western New York. 10¢.
 194 C. Manure piles and feed lots as sources of European corn-borer reinfestation. 5¢.
 197 C. Preliminary report upon the infestation and general status of the European corn borer in western New York. 5¢.
 *241 C. Leaf hoppers injurious to cereal and forage crops. 5¢.
 *275 C. The infestation of corn ears by the European corn borer, and cribbed corn as an auxiliary source of infestation. 5¢.
 *281 C. The survival of European corn-borer larvae in barns and other storage places. 5¢.
 *287 C. Burning for the control of aphids on alfalfa in the Antelope Valley of California. 5¢.
 *289 C. Observations on the European corn borer and its major parasites in the Orient. 5¢.
 *302 C. Fight grasshoppers by plowing stubble. 5¢.

Miscellaneous Publications:

- 35 MP. Cotton or weevils. 10¢.

Miscellaneous:

- Help fight the European corn borer. (Poster.)
 Poster showing insect pests and their work and method of control: (3) Wheat joint worm.

Bureau of Entomology Bulletins (Old Series):¹

- *17 The chinch bug. 5¢.

Bureau of Entomology Bulletins (New Series):¹

- *63 Papers on the cotton boll weevil and related and associated insects: I. Hibernation and development of the cotton boll weevil; II. Notes on the biology of certain weevils related to the cotton boll weevil; III. An ant enemy of the cotton boll weevil; IV. A predatory bug reported as an enemy of the cotton boll weevil; V. Notes on the pepper weevil; VI. The strawberry weevil in the South-Central States; VII. The cotton stalk-borer. (Parts not for sale separately.) Complete bulletin 15¢.
 *85 Papers on cereal and forage insects: I. The lesser clover-leaf weevil. 5¢. III. The clover-root curculio. 5¢. V. The New Mexico range caterpillar. 10¢. VII. The smoky crane-fly. 5¢. VIII. The cowpea curculio. 5¢.
 *95 Papers on cereal and forage insects: II. The maize billbug. 5¢. III. Chinch bug investigations west of the Mississippi River. 10¢. IV. The so-called "curlew bug." 10¢. VII. The alfalfa looper in the Pacific Northwest. 5¢.
 *96 Papers on insects affecting stored products: Part III. The lesser grain-borer. The larger grain-borer. 5¢.
 *110 The spring grain-aphis or "green bug." 25¢.
 *112 Preliminary report on the alfalfa weevil. 15¢.
 *Papers on Aphididae: Part II. The yellow clover aphid. (Bureau of Entomology bulletin 25—technical series.) 5¢.

Bureau of Entomology Circulars:¹

- *106 The wheat strawworm. 5¢.
 *148 Two destructive Texas ants. 5¢.
 *158 The clover mite: Distribution, description, and seasonal history. 5¢.

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INSECTS: FLOWERS—VEGETABLES—MISCELLANEOUS

Farmers' Bulletins:

- *837 F. Asparagus beetles and their control. 5¢.
- 846 F. Tobacco beetle and how to prevent damage by it. 5¢.
- 940 F. Common white grubs. 5¢.
- 959 F. Spotted garden slug. 5¢.
- *1061 F. Harlequin cabbage bug and its control. 5¢.
- *1252 F. Sawflies injurious to rose foliage. 5¢.
- 1275 F. Weevils in beans and peas. 5¢.
- *1306 F. Insect enemies of chrysanthemums. 5¢.
- 1362 F. Insects injurious to ornamental greenhouse plants. 10¢.
- *1425 F. The tobacco flea-beetle in dark fire-cured tobacco districts of Kentucky and Tennessee. 5¢.
- 1461 F. The common cabbage worm and its control. 5¢.
- *1462 F. The potato leafhopper and how to control it. 5¢.
- 1489 F. Green June beetle larva in tobacco beds. 5¢.
- 1494 F. Tobacco cutworms and their control. 5¢.
- 1495 F. Insect enemies of the flower garden. 5¢.
- 1499 F. The melon aphid and its control. 5¢.
- 1514 F. Control of sugar-beet nematode by crop rotation. 5¢.
- 1531 F. Tobacco bud worm and its control in Georgia and Florida tobacco-growing region. 5¢.
- 1561 F. Puerto Rican mole cricket. 5¢.
- 1569 F. Earthworms as pests and otherwise. 5¢.
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- *1168 D. Wearing qualities of shoe leather. 10¢.

Technical Bulletins:

- *169 T. The wearing quality and other properties of vegetable-tanned and chrome-retanned sole leather. 5¢.
 *383 T. Microbiological studies of salt in relation to the reddening of salted hides. 5¢.

LIVESTOCK

(See also Name of animal; Diseases; Insects; Feeds; Grades; Marketing)

Farmers' Bulletins:

- 1179 F. Feeding cottonseed products to livestock. 5¢.
 1428 F. Saving livestock from starvation on southwestern ranges. 5¢.

Leaflets:

- 1 L. Ways to save young livestock. 5¢.
 38 L. Maintaining the health of livestock in transit. 5¢.
 88 L. Poisoning of livestock by plants that produce hydrocyanic acid. 5¢.

Technical Bulletins:

- 127 T. An economic study of livestock possibilities in the south-eastern coastal plain. 20¢.

Department Circulars:

- 235 DC. Utility value of purebred livestock. 10¢.

Miscellaneous Circulars:

- 12 MC. Handbook for better feeding of livestock. 15¢.
 33 MC. Some tested methods for livestock improvements. 5¢.

Circulars:

- 86 C. A business analysis of the Producers Livestock Commission Association of National Stockyards, Illinois. 10¢.
 140 C. Handling livestock during drought. 5¢.
 142 C. Analysis of the operation of a cooperative livestock concentration point. 10¢.

Miscellaneous Publications:

- *28 MP. Livestock review for 1927. 10¢.
 54 MP. The livestock review for 1928. 10¢.
 59 MP. Reliability of the tuberculin test. 5¢.
 81 MP. Recommendations of the Bureau of Animal Industry on problems of livestock production. 5¢.

Yearbook Separates:

- *845 Hunting down stock killers. 5¢.

Miscellaneous:

NOTE.—See also pictures and posters on livestock listed under Agricultural and Visual Education.

MARKETING (COOPERATIVE)**Farmers' Bulletins:**

- 1144 F. Cooperative marketing. 5¢.
 *1502 F. Cooperative livestock shipping associations. 5¢.

Department Bulletins:

- *394 D. Survey of typical cooperative stores in United States. 10¢.
 *541 D. Cooperative organization by-laws. 5¢.
 937 D. Cooperative grain marketing: Comparative study of method in United States and Canada. 5¢.
 1095 D. Producers' cooperative milk-distributing plants. 10¢.
 1237 D. Organization and development of a cooperative citrus-fruit marketing agency. 10¢.
 1261 D. Operating methods and expense of cooperative citrus-fruit marketing agencies. 5¢.
 1266 D. Agricultural cooperation in Denmark. 15¢.
 *1302 D. Development and present status of farmers' cooperative business organizations. 15¢.
 1392 D. Cooperative marketing of cotton. 10¢.
 1414 D. Management problems of cooperative associations marketing fruits and vegetables. 10¢.

Technical Bulletins:

- *40 T. Agricultural cooperative associations, marketing and purchasing, 1925. 20¢.
 57 T. Cooperative marketing of livestock in United States by terminal association. 25¢.
 63 T. Cooperative marketing of grain in western Canada. 20¢.
 179 T. Cooperative marketing of fluid milk. 20¢.
 322 T. Agricultural credit corporations affiliated with cotton cooperative marketing associations. 10¢.

Department Circulars:

- 397 DC. Farmers' cooperative business study, the Staple Cotton Cooperative Association. 10¢.
 403 DC. Business set-up of a cooperative marketing association. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Miscellaneous Circulars:

- *10 MC. Grain futures act, 1922. 10¢.
- 51 MC. Farmer and United States warehouse act. 5¢.
- 97 MC. Cooperation in agriculture, selected and annotated reading list, with special reference to purchasing, marketing, and credit, including only works printed in English. 15¢.

Circulars:

- 10 C. Joint use of sales organization by 2 cooperative associations. 10¢.
- 80 C. Organizations and management problems of cooperative oil associations in Minnesota. 10¢.
- *87 C. Problems in cooperation and experiences of farmers in marketing potatoes. 5¢.
- 94 C. Farmers' cooperative associations in the United States, 1929. 15¢.
- 100 C. Business analysis of the tobacco growers' cooperative association. 25¢.
- *121 C. Cooperative marketing and purchasing, 1920-1930. 10¢.
- 159 C. Extension work in cooperative marketing. 10¢.

Miscellaneous Publications:

- 14 MP. Pooling as practiced by cooperative marketing associations. 5¢.

Yearbook Separates:

- 699 Y. A federated cooperative cheese manufacturing and marketing association. 5¢.

MARKETING-MARKETS-MARKET STUDIES (GENERAL)*(See also Diseases; Grades)***Farmers' Bulletins:**

- *1050 F. Handling and loading southern new potatoes. 5¢.
- *1091 F. Protection of potatoes from cold in transit, lining and loading cars. 5¢.
- 1210 F. Measuring and marketing farm timber. 5¢.
- 1232 F. Seed marketing hints for the farmer. 5¢.
- *1290 F. Bulk handling of grain. 5¢.
- 1291 F. Preparation of fresh tomatoes for market. 5¢.
- 1308 F. Marketing the cowpea-seed crop. 5¢.
- 1377 F. Marketing poultry. 5¢.
- 1378 F. Marketing eggs. 5¢.
- 1423 F. Preparation of cabbage for market. 5¢.
- 1457 F. Packing apples in boxes. 5¢.
- 1459 F. Selling black walnut timber. 5¢.
- 1539 F. High-grade alfalfa hay: Methods of producing, baling, and loading for market. 5¢.
- 1551 F. Marketing farm produce by parcel post. 5¢.
- 1558 F. Preparation of eastern grapes for market. 5¢.
- 1560 F. Preparing strawberries for market. 5¢.
- 1574 F. Preparing Johnson hay for market in the Black Prairie Belt of Alabama and Mississippi. 5¢.
- 1578 F. Marketing late-crop potatoes. 5¢.
- 1579 F. Containers used in shipping fruits and vegetables. 5¢.
- 1594 F. Preparation of bunched beets, carrots, and turnips for market. 5¢.
- 1694 F. Dressing and packing turkeys for market. 5¢.
- 1695 F. Preparing apples for market in barrels and boxes. 5¢.
- 1700 F. Marketing hay by modern methods. 5¢.
- 1702 F. Preparing peaches for market. 5¢.

Leaflets:

- 67 L. Beef grading and stamping service. 5¢.
- 68 L. Roadside markets. 5¢.
- 73 L. Is the public market a good civic investment? 5¢.
- 92 L. Preparing wool for market. 5¢.

Department Bulletins:

- *267 D. Methods of wholesale distribution of fruits and vegetables on large markets. 5¢.
- 274 D. Factors governing successful shipment of red raspberries from Puyallup Valley. 10¢.
- *401 D. Marketing and distribution of western muskmelons in 1915. 15¢.
- *457 D. Relation between primary market prices and qualities of cotton. 5¢.
- *476 D. A study of cotton market conditions in North Carolina with a view to their improvement. 5¢.
- *558 D. Marketing grain at country points. 5¢.
- *688 D. Marketing berries and cherries by parcel post. 5¢.
- 690 D. Marketing practices of Wisconsin and Minnesota creameries. 5¢.
- 861 D. Marketing eastern grapes. 10¢.
- *898 D. Turpentine: Its sources, properties, uses, transportation, and marketing, with recommended specifications. 15¢.
- *977 D. Marketing hay at country points. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Department Bulletins—Continued.

- 978 D. The weighing of market hay. 10¢.
 979 D. Marketing hay through terminal markets. 10¢.
 *980 D. Inspection and grading of hay. 5¢.
 1002 D. Open types of public markets. 5¢.
 *1019 D. Marketing broom corn. 10¢.
 1056 D. Marketing cottonseed for planting purposes. 5¢.
 1206 D. Marketing southern-grown sweet potatoes. 10¢.
 1242 D. Marketing cabbage. 15¢.
 1246 D. Market classes and grades of dressed beef. 25¢.
 1283 D. Marketing and distribution of American-grown Bermuda onions. 10¢.
 *1325 D. Marketing onions. 15¢.
 1360 D. Market classes and grades of livestock. 15¢.
 1401 D. Marketing peanuts. 25¢.
 1411 D. Expense factors in city distribution of perishables. 10¢.
 *1412 D. Marketing lettuce. 15¢.
 1415 D. Marketing western boxed apples. 20¢.
 1416 D. Marketing barreled apples. 20¢.
 1441 D. Methods and practices of retailing meat. 10¢.
 1442 D. Margins, expenses, and profits in retailing meat. 10¢.
 *1443 D. Consumer habits and preferences in purchase and consumption of meat. 10¢.
 1444 D. Cotton prices and markets. 15¢.
 1445 D. Services in cotton marketing. 10¢.
 1464 D. Market classes and grades of cattle. 25¢.
 1470 D. Market classes and grades (and also cuts) of dressed lamb and mutton. 15¢.
 1479 D. Speculative transactions in 1926 May wheat future. 15¢.

Technical Bulletins:

- 27 T. Freezing injury to potatoes. 10¢.
 69 T. Marketing American cotton in England. 20¢.
 73 T. Some factors affecting demand for milk and cream in metropolitan area of New York. 15¢.
 78 T. Marketing American cotton on the Continent of Europe. 20¢.
 115 T. Factors affecting the price of peaches in New York City market. 15¢.
 117 T. Comparative influence of different storage temperatures on weight losses and vitality of seed potatoes. 5¢.
 *119 T. Influence of freezing of seed potatoes on viability and yield. 5¢.
 124 T. Some factors affecting the marketing of wool in Australia, New Zealand, Union of South Africa, England, and France, 1929. 25¢.
 140 T. Investigations on the handling of Bartlett pears from the Pacific coast districts. 10¢.
 193 T. Experiments on the processing and storing of Deglet Noor dates in California. 15¢.
 199 T. Trading in corn futures. 20¢.
 234 T. Marketing apples grown in the Cumberland-Shenandoah region of Pennsylvania, Virginia, and West Virginia. 10¢.
 243 T. Transporting and handling milk in tanks. 10¢.
 249 T. Some factors affecting the viscosity of cream. 25¢.
 272 T. The marketing and distribution of fruits and vegetables by motor truck. 20¢.
 *359 T. Farmers' response to price in hog production and marketing. 5¢.
 *370 T. Bruising and freezing of apples in storage and transit. 15¢.

Department Circulars:

- 145 DC. Australia and New Zealand as markets for American fruit. 5¢.
 *146 DC. Markets for American fruit in China, with recommendations for American shippers. 10¢.
 300 DC. Commercial cuts of meat. 5¢.
 416 DC. Demand, marketing, and production of Oregon and Washington prunes. 10¢.

Miscellaneous Circulars:

- 35 MC. Bibliography on marketing agricultural products. 10¢.
 *54 MC. Efficient methods of retailing meat. 10¢.
 63 MC. Inspection stamp as guide to wholesome meat. 5¢.

Circulars:

- 16 C. Some economic aspects of the marketing of milk and cream in New England. 20¢.
 28 C. Market classes and grades of calves and vealers. 10¢.
 *90 C. Marketing fresh fruit in Europe. 25¢.
 91 C. Market supplies and prices of apples. 15¢.
 103 C. Market classes and grades of dressed veal and calf carcasses. 25¢.
 144 C. Farmers' experiences and opinions as factors influencing their cotton marketing methods. 10¢.
 149 C. Marketing the commercial crop of early potatoes. 10¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Circulars—Continued.

- 151 C. Hedging in grain futures. 25¢.
- 201 C. Futures trading and the cash-grain markets. 15¢.
- 208 C. Market classes and grades of yearling beef. 20¢.
- *249 C. American tobacco types, uses, and markets. 15¢.
- 250 C. American fruit and vegetable auctions. 5¢.
- *253 C. Spoilage of stone fruits on the market. 5¢.
- *288 C. Market classes and grades of pork carcasses and fresh pork cuts. 10¢.

Miscellaneous Publications:

- *16 MP. Save the beans (from deterioration in transit). 5¢.
- 150 MP. Bibliography of the marketing of agricultural products. 20¢. (Supplement to MC. 35.)

Yearbook Separates:

- 605 Y. Improved methods of handling and marketing cotton. 5¢.
- *636 Y. Retail public markets. 5¢.
- 663 Y. How Hawaii helps her farmers to market their produce. 5¢.
- *726 Y. Rest rooms for women in marketing centers. 5¢.
- 797 Y. How to use market stations. 5¢.
- 808 Y. Marketing and purchasing demonstrations in the South. 5¢.
- *809 Y. Federal supervision of livestock markets. 5¢.
- *815 Y. What the farmer should expect from the seedman. 5¢.
- *860 Y. The farmers' interest in foreign markets. 5¢.
- *873 Y. Wheat production and marketing. 10¢.

Miscellaneous:

NOTE.—See also charts and posters on market commodities listed under Agricultural and Visual Education.

The following publication belongs to an early series, the studies having been made and the material prepared for issuance prior to 1914:

*The comparative rate of decomposition in drawn and undrawn market poultry. (Bureau of Chemistry Circular 70.) 5¢.

MELONS**Farmers' Bulletins:**

- *1145 F. Handling and transportation of cantaloupes. 5¢.
- 1394 F. Watermelons. 5¢.
- 1468 F. Muskmelons. 5¢.
- 1499 F. The melon aphid and its control. 5¢.

Department Bulletins:

- *401 D. Marketing and distribution of western muskmelons in 1915. 15¢.
- *1250 D. Relation between composition of California cantaloupes and their commercial maturity. 5¢.

Circulars:

- 74 C. Chemical injury to watermelons in transit. 5¢.

MILLING—BAKING**Department Bulletins:**

- 215 D. Composition of corn (maize) meal manufactured by different processes, and influence of composition on keeping qualities. 5¢.
- *455 C. The drying for milling purposes of damp and garlicky wheat. 5¢.
- 788 D. Moisture in wheat and mill products. 5¢.
- 1013 D. Influence of relative humidity and moisture content of flour. 5¢.
- 1130 D. Significance of wheat hairs in microscopical examination of flour. 5¢.
- 1183 D. Milling and baking experiments with American wheat varieties. 15¢.
- 1187 D. Experimental milling and baking, including chemical determinations. 15¢.
- 1420 D. Relation of kernel texture to the physical characteristics, milling and baking qualities, and chemical composition of wheat. 5¢.
- *1463 D. Influence of granulation on chemical composition and baking quality of flour. 10¢.

Technical Bulletins:

- *197 T. Milling and baking qualities of world wheats. 35¢.

Circulars:

- 138 C. Development and use of baking powder and baking chemicals. 5¢.
- 190 C. Buckwheat milling and its by-products. 5¢.

MUSHROOMS**Farmers' Bulletins:**

- 1587 F. Mushroom culture for amateurs. 5¢.

Circulars:

- *143 C. Some common mushrooms and how to know them. 20¢.
- *251 C. Mushroom growing in the United States. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

NORTH AMERICAN FAUNA

This is a technical series of the Bureau of Biological Survey devoted principally to revisions of genera of mammals and to biological surveys of States and other major areas. Of interest chiefly to professional biologists.

Following is a list of those available:

- *27. Biological investigations of the Athabaska-Mackenzie Region. \$1.25.
- *34. Revision of the spiny pocket mice. 10¢.
- 43. Rice rats of North America (genus *Oryzomys*). 20¢.
- *45. Biological survey of Alabama. I. Physiography and life zones. II. The mammals. 25¢.
- 47. Revision of the American pikas (genus *Ochotona*). 15¢.
- 48. Voles of the genus *Phenacomys*. I. Revision of the genus *Phenacomys*. II. Life history of the red tree mouse (*Phenacomys longicaudus*). 20¢.
- *49. A biological survey of North Dakota. I. Physiography and life zones. II. The mammals. 60¢.
- 50. Revision of the American lemming mice. 10¢.
- *51. A taxonomic review of the American long-tailed shrews (genera *Sorex* and *Microsorex*). 50¢.
- 52. Revision of the American chipmunks (genera *Tamias* and *Eutamias*). 35¢.
- 53. Mammals of New Mexico. \$1.

NUTS

(See also Diseases; Insects; Marketing)

Farmers' Bulletins:

- 1392 F. Black walnut for timber and nuts. 5¢.
- 1501 F. Nut-tree propagation. 5¢.
- 1656 F. Peanut growing. 5¢.

Leaflets:

- 71 L. Fertilizers for pecan soils. 5¢.
- 84 L. Planting black walnut. 5¢.

Department Bulletins:

- *1282 D. Almond varieties in United States. 30¢.
- *1305 D. Utilization of almonds for various food products. 5¢.
- 1478 D. Effect of planting distances and time of shelling seed on peanut yield. 5¢.

Technical Bulletins:

- 324 T. An economic study of the pecan industry. 10¢.

Department Circulars:

- *128 DC. Manufacture and use of peanut butter. 5¢.

Circulars:

- 233 C. Effect of cold storage on age of seed and on germination and yield of peanuts. 5¢.
- *272 C. Tests of varieties and strains of large-seeded Virginia-type peanuts. 5¢.

Miscellaneous:

- The following publication belongs to an early series, the studies having been made and the material prepared for issuance prior to 1914:
- *Agricultural explorations in the fruit and nut orchards of China. (Bureau of Plant Industry Bulletin 204.) 15¢.

OATS

(See also Diseases; Insects; Marketing)

Farmers' Bulletins:

- 1581 F. Oats in the North Central States. 5¢.
- 1533 F. Spring-sown red oats. 5¢.
- 1611 F. Oats in the western half of the United States. 5¢.
- 1640 F. Fall-sown oat production. 5¢.
- 1659 F. Oats [spring] in the Northeastern States. 5¢.

Department Bulletins:

- *99 D. Tests of selections from hybrids and commercial varieties of oats. 5¢.
- *629 D. Greenhouse experiments on rust resistance of oat varieties. 5¢.
- *1058 D. Sterility of oats. 5¢.
- *1343 D. Improved oat varieties for Corn Belt. 10¢.
- *1351 D. What makes the price of oats. 10¢.
- *1481 D. Experiments with fall-sown oats in the South. 10¢.

Technical Bulletins:

- *143 T. Field studies on the rust resistance of oat varieties. 10¢.

Department Circulars:

- *193 DC. Fulghum oats. 5¢.
- *324 DC. Markton, an oat variety immune from covered smut. 5¢.
- 353 DC. Improved oat varieties for New York and adjacent States. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Circulars:

- 133 C. Methods of eradicating buckthorn (*Rhamnus*) susceptible to crown rust (*Puccinia coronata*) of oats. 10¢.

Miscellaneous Publications:

- 131 MP. A dangerous neighbor (common barberry) for wheat, oats, barley, and rye. 5¢.

PAPER—PULP**Leaflets:**

- 57 L. Pulpwood crops in the Northeast. 5¢.

Department Bulletins:

- *309 D. Zacaton as paper-making material. 5¢.
1241 D. How United States can meet its present and future pulpwood requirements. 15¢.
*1298 D. Control of decay in pulp and pulpwood. 25¢.
*1485 D. Suitability of American woods for paper pulp. 20¢.

Technical Bulletins:

- 223 T. Reproduction on pulpwood lands in the Northeast. 20¢.
*334 T. The effect of inorganic acids on the physical properties of waterleaf rag bond paper. 5¢.

Miscellaneous Publications:

- *41 MP. Pulp-timber resources of southeastern Alaska. 15¢.

PERSONNEL**Miscellaneous Publications:**

- 83 MP. Directory of field activities of the Bureau of Entomology. 10¢.
*89 MP. Classified list of projects of the agricultural experiment stations, 1930. 25¢.
122 MP. Officials and organizations concerned with wild-life protection, 1931. 5¢.
*123 MP. List of technical workers in the Department of Agriculture and outline of department functions, 1931. 25¢.
129 MP. Directory of field activities of the Bureau of Plant Industry, December 1931. 20¢.
*154 MP. List of workers in subjects pertaining to agriculture in State agricultural colleges and experiment stations, 1932-1933. 10¢.
*155 MP. Directory of field activities of the Bureau of Plant Quarantine, 1933. 10¢.

PLANTS: BREEDING—PROPAGATION—PRUNING

(See also name of plant)

Farmers' Bulletins:

- 157 F. Propagation of plants. 5¢.
*181 F. Pruning. 5¢.
1369 F. Bridge grafting. 5¢.
1567 F. Propagation of trees and shrubs. 5¢.

Department Bulletins:

- *137 D. Some distinctions in our cultivated barleys with reference to their use in plant breeding. 5¢.
*1134 D. Self-fertilization and cross-fertilization in Pima cotton. 10¢.
*1341 D. Effects of continuous selection for ear type in corn. 5¢.
*1354 D. Productiveness of successive generations of self-fertilized lines of corn and of crosses between them. 10¢.
*1396 D. Comparison of maize-breeding methods. 5¢.
1403 D. Segregation and correlated inheritance in Marquis and Hard Federation crosses, with factors for yield and quality of spring wheat in Montana. 15¢.
1489 D. Corn breeding. 25¢.

Technical Bulletins:

- *151 T. Vegetative propagation from the standpoint of plant anatomy. 35¢.
218 T. Inheritance of winter hardiness, growth habit, and stem-rust reaction in crosses between Minhardi winter and H-44 spring wheat. 15¢.
*385 T. Inheritance of stem-rust reaction and correlation of characters in Pentad, Nodak, and Akrona durum-wheat crosses. 5¢.

Department Circulars:

- 310 DC. Solar propagating frame for rooting citrus and other subtropical plants. 5¢.
*323 DC. How to collect, label, and pack living plant material for long-distance shipment. 5¢.
383 DC. Search in foreign countries for blight-resistant chestnuts and related tree crops. 5¢.
387 DC. Pollination of the avocado. 5¢.

Yearbook Separates:

- 852 Y. Flowering and fruiting of plants as controlled by length of day. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

PLANTS: FIBER

(See also name of plant)

Department Bulletins:

- *1278 D. Production of henequen fiber in Yucatan and Campeche. 5¢.

Miscellaneous Circulars:

- 110 MC. Ramie, a fiber-yielding plant. 5¢.

Circulars:

- 186 C. Sisal and henequen plants yielding fiber for binder twine. 5¢.

Yearbook Separates:

- *628 Y. Hemp. 15¢.
*790 Y. Sisal and henequen as binder-twine fibers. 5¢.

PLANTS: POISONOUS

Farmers' Bulletins:

- 988 F. Larkspur or "poison weed." 5¢.
1054 F. The loco-weed disease. 5¢.
1166 F. Poison ivy and poison sumac, and their eradication. 5¢.
1273 F. Stock-poisoning death camas. 5¢.

Leaflets:

- 88 L. Poisoning of livestock by plants that produce hydrocyanic acid. 5¢.

Department Bulletins:

- 710 D. Stagger grass as a poisonous plant. 5¢.
767 D. Oak-leaf poisoning of domestic animals. 10¢.
800 D. Whorled milkweed as a poisonous plant. 15¢.
*942 D. Poisonous properties of the whorled milkweeds. 10¢.
947 D. Western sneezeweed as a poisonous plant. 10¢.
969 D. The Mexican whorled milkweed as a poisonous plant. 5¢.
*1012 D. Death camas species, *Zygadenus paniculatus* and *Z. elegans*, as poisonous plants. 10¢.
*1212 D. Woolly-pod milkweed as a poisonous plant. 5¢.
*1240 D. Meadow death camas as a poisonous plant. 5¢.
1245 D. Stock-poisoning plants of range. 35¢.
1274 D. Cocklebur as poisonous plants. 10¢.
1376 D. Nuttall's death camas as a poisonous plant. 5¢.
1391 D. Rayless goldenrod as a poisonous plant. 5¢.

Technical Bulletins:

- 22 T. Wild tobacco (*Nicotiana trigonophylla* Dunal and *Nicotiana attenuata* Torrey) as stock-poisoning plants. 10¢.
29 T. Coyotillo (*Karwinskia humboldtiana*) as a poisonous plant. 10¢.
*202 T. Toxic effects of St. Johnswort (*Hypericum perforatum*) on cattle and sheep. 5¢.
219 T. Mountain-laurel (*Kalmia latifolia*) and sheep laurel (*Kalmia angustifolia*) as stock-poisoning plants. 10¢.
*391 T. Alpine kalmia (*Kalmia microphylla*) as a stock-poisoning plant. 5¢.

Department Circulars:

- *81 DC. *Astragalus tetrapetelus*, a new poisonous plant of Utah and Nevada. 5¢.
*272 DC. Woolly-pod milkweed, a dangerous stock-poisoning plant. 5¢.
*279 DC. Greasewood as a poisonous plant. 5¢.
283 DC. Livestock poisoning by cocklebur. 5¢.

PLANTS—HERBS (MEDICINAL)

Farmers' Bulletins:

- 304 F. Growing and curing hops. 5¢.
*613 F. Goldenseal under cultivation. 5¢.
663 F. Drug plants under cultivation. 5¢.
1184 F. Ginseng culture. 5¢.
1231 F. Drying crude drugs. 5¢.
1555 F. Peppermint and spearmint as farm crops. 5¢.

Department Bulletins:

- *568 D. Presence of arsenic in hops. 5¢.
867 D. Castor-oil industry. 10¢.

Technical Bulletins:

- *378 T. Commercial possibilities of Japanese mint in the United States as a source of natural menthol. 5¢.

Circulars:

- *46 C. Methods of collecting and preserving pollen for use in treatment of hay fever. 5¢.

Miscellaneous Publications:

- 77 MP. American medicinal plants of commercial importance. 30¢.

Publication preceded by an asterisk (*) are obtainable by purchase only.

Miscellaneous:

The following publication belongs to an early series, the studies having been made and the material prepared for issuance prior to 1914:

*The source of the drug dioscorea, with a consideration of the Dioscoreae found in the United States. (Bureau of Plant Industry Bulletin 189.) 10¢.

POTATOES: IRISH—SWEET

(See also Diseases; Insects; Marketing)

Farmers' Bulletins:

- 999 F. Sweet-potato growing. 5¢.
- 1064 F. Production of late or main-crop potatoes. 5¢.
- 1190 F. How to grow an acre of potatoes. 5¢.
- 1205 F. Potato production in the South. 5¢.
- 1267 F. Utilization of flue-heated tobacco barns for sweet-potato storage. 5¢.
- 1332 F. Seed potatoes and how to produce them. 5¢.
- 1436 F. Why potatoes run out. 5¢.
- 1442 F. Storage of sweet potatoes. 5¢.
- 1639 F. Potato production in the far Western States. 5¢.

Department Bulletins:

- 1158 D. Production of sirup from sweet-potatoes. 10¢.
- 1195 D. Sterilities of wild and cultivated potatoes with reference to breeding from seed. 10¢.
- *1465 D. Method of growing bacteriologically sterile potato plants. 15¢.

Technical Bulletins:

- 5 T. Source, character, and treatment of potato sets. 10¢.
- 7 T. Origin and distribution of the commercial potato crop. 15¢.
- *118 T. Studies in time and rate of irrigating potatoes in Colorado. 5¢.
- 216 T. Effect of irrigation water on vigor and vitality of seed potatoes. 5¢.
- 335 T. Fertilizers for sweetpotatoes based on investigations in North Carolina. 5¢.

Department Circulars:

- *238 DC. United States grades for potatoes. 5¢.

Circulars:

- 191 C. Time of planting as affecting yields of Rural New Yorker and Triumph potatoes in the Greeley, Colo., district. 5¢.
- *276 C. The Katahdin and Chippewa potatoes. 5¢.

Miscellaneous Publications:

- 53 MP. Disinfecting seed potatoes. 5¢.

Miscellaneous:

The following publication belongs to an early series, the studies having been made and the material prepared for issuance prior to 1914:

*Yams in the West Indies. (Botany Circular 21.) 5¢.

POULTRY AND EGGS

(See also Diseases; Insects; Marketing)

Farmers' Bulletins:

- 684 F. Squab raising. 5¢.
- 697 F. Duck raising. 5¢.
- 767 F. Goose raising. 5¢.
- 849 F. Capons and caponizing. 5¢.
- 1391 F. The guinea fowl. 5¢.
- 1409 F. Turkey raising. 5¢.
- 1506 F. Breeds of chickens: I. American, Asiatic, English, and Mediterranean classes. 5¢.
- 1507 F. Standard breeds and varieties of chickens: II. Continental European, Oriental, and miscellaneous classes. 5¢.
- 1508 F. Poultry keeping in back yards. 5¢.
- 1524 F. Farm poultry raising. 5¢.
- 1538 F. Incubation and brooding of chickens. 5¢.
- 1541 F. Feeding chickens. 5¢.
- 1554 F. Poultry houses and fixtures. 5¢.
- 1694 F. Dressing and packing turkeys for market. 5¢.

Leaflets:

- 64 L. Construction and packing of an egg case. 5¢.
- 96 L. Protecting poultry from predacious birds. 5¢.

Department Bulletins:

- 846 D. Examination of frozen-egg products and interpretation of results. 10¢.
- 1385 D. Poultry and egg industry in Europe. 15¢.

Department Circulars:

- 74 DC. Points for egg breakers: How to break eggs for freezing. 5¢.
- 391 DC. Methods of packing eggs and of buffing and bracing cases of eggs in carload shipments. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Circulars:

- 111 C. An analysis of the business of the poultry producers of central California. 10¢.

Miscellaneous Publications:

- 127 MP. Peafowl and their care. 5¢.
*158 MP. Handbook of poultry and egg statistics. 10¢.

Yearbook Separates:

- *552 Y. Effect of present method of handling eggs on industry and product. 5¢.
917 Y. Poultry industry. 20¢.

Miscellaneous:

- *Poultry Industry in United States. 25¢.

NOTE.—See also pictures and charts on poultry and eggs listed under Agricultural and Visual Education.

The following publication belongs to an early series, the studies having been made and the material prepared for issuance prior to 1914:

- *Digestion experiments with poultry. (Bureau of Animal Industry Bulletin 56). 20¢.

PUERTO RICO**Puerto Rico Experiment Station Bulletins:**

- *1 PRB. The agricultural experiment station of Porto Rico: Its establishment, location, and purpose. 5¢
*2 PRB. The changa, or mole cricket, in Porto Rico. 5¢.
*4 PRB. Propagation and marketing of oranges in Porto Rico. 10¢.
*5 PRB. Tobacco investigations in Porto Rico during 1903-04. 5¢.
*11 PRB. Relation of calcareous soils to pineapple chlorosis. 10¢.
*12 PRB. Lime magnesia ratio as influenced by concentration. 10¢.
*13 PRB. Studies on acid soils of Porto Rico. 5¢.
*14 PRB. The red clay soil of Porto Rico. 5¢.
*16 PRB. The effect of strongly calcareous soils on the growth and ash composition of certain plants. 10¢.
*17 PRB. Fungous diseases of coffee in Porto Rico. 10¢.
*19 PRB. Cover crops for Porto Rico. 10¢.
*20 PRB. Experiments on the supposed deterioration of varieties of vegetables in Porto Rico, with suggestions for seed preservation. 10¢.
*23 PRB. The changa or West Indian mole cricket. 10¢.
*26 PRB. Vanilla: A promising new crop for Porto Rico. 5¢.
*27 PRB. Yam culture in Porto Rico. 10¢.
*29 PRB. Dairying in Porto Rico. 5¢.
*30 PRB. Coffee varieties in Porto Rico. 10¢.
*31 PRB. Experiments with fertilizers for coffee in Porto Rico. 10¢.
*32 PRB. Effect of topping on yield of coffee in Porto Rico. 5¢.
*33 PRB. Citrus culture in Porto Rico. 10¢.
*34 PRB. Experiments with fertilizers on coconut palms and variation in palm productivity. 10¢.

Puerto Rico Experiment Station Circulars:

- *16 PRC. Rearing queen bees in Porto Rico. 5¢.
*17 PRC. Some means of controlling insects, fungi, and other pests in Porto Rico. 5¢.
*18 PRC. The selection of seed corn in Porto Rico. 10¢.
*19 PRC. Poultry keeping in Porto Rico. 5¢.
*20 PRC. Mosquito survey of Mayaguez. 5¢.
*21 PRC. List and analytical index of publications of Porto Rico Agricultural Experiment Station. 10¢.

REPORTS—SURVEYS**Department Bulletins:**

- 1234 D. Agricultural survey of Europe: Danube Basin, Pt. 1. 15¢.
1399 D. Agricultural survey of Europe: Germany. 20¢.
1409 D. Agricultural survey of South America: Argentina and Paraguay. 20¢.

Technical Bulletins:

- 37 T. Agricultural survey of Europe: France. 25¢.
101 T. Agricultural survey of Europe: Switzerland. 15¢.
126 T. Agricultural survey of Europe: The Danube Basin—Part 2, Rumania, Bulgaria, and Yugoslavia. 30¢.
160 T. Agricultural survey of Europe: Hungary. 20¢.

Annual Reports:**Department:**

- *1862, 70¢; *1863, 60¢; *1864, 60¢; *1865, 60¢; *1866, 60¢; *1867, 60¢;
*1868, 60¢; *1869, 70¢; *1870, 65¢; *1871, 55¢; *1872, 55¢; *1873, 40¢;
*1874, 40¢; *1875, 60¢; *1876, 40¢; *1877, 70¢; *1878, 70¢; *1879, 90¢;
*1880, \$1.20; *1881-82, \$1.30; *1883, 60¢; *1884, \$1.00; *1885, 80¢;
*1886, \$1.00; *1888, \$1.00; *1889, 80¢; *1890, \$1.00; *1891, \$1.00;
*1892, \$1.00; *1893, 80¢; *1894, 25¢; *1895, 25¢; *1896, 30¢; *1897, 25¢;
*1898, 25¢; *1899, 30¢; *1900, 30¢; *1902, 40¢; *1903, 40¢; *1904, 40¢;
*1905, 55¢; *1907, 75¢; *1908, 85¢; *1911, 75¢; *1912, \$1.00; *1913, 40¢;
*1914, 40¢; *1915, 40¢; *1916, 50¢; *1917, 50¢; *1918, 50¢; *1919, 75¢;
*1920, 75¢; *1922, 85¢; *1923, \$1.00.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Annual Reports—Continued.**Animal Industry:**

*1884, 65¢; *1886, 50¢; *1887-88, 65¢; *1889-90, 40¢; *1891-92, 50¢;
*1893-94, 20¢; *1895-96, 50¢; *1897, 65¢; *1899, 85¢; *1902, 65¢; *1903,
50¢.

Weather Bureau:

*1891-92, 70¢; *1893, 70¢; *1894, 70¢; *1896, 70¢; *1897, \$1.20; *1898,
75¢; *1899, 50¢; *1900, 60¢; *1901, 60¢; *1902, 60¢; *1903, 60¢; *1904,
65¢; *1905, 65¢; *1906, 80¢; *1907, \$1.00; *1908, \$1.00; *1909, 75¢;
*1910, 75¢; *1911, 75¢; *1912, 75¢; *1913, 60¢; *1914, 60¢; *1915, 60¢;
*1917, 65¢; *1918, 65¢; *1919, \$1.00; *1920, 90¢; *1921, \$1.00; *1922,
\$1.00; *1923, 85¢; *1924, \$1.00; *1925, \$1.00; 1926, \$1.25; *1927, \$1.25;
*1928, \$1.25; *1929, \$1.00; *1930, \$1.50; *1931, \$1.25; 1932, *1.25.

Secretary:

*1924, 10¢; *1926, 15¢; *1927, 10¢; *1928, 15¢; *1929, 15¢; 1930, 15¢;
1931, 15¢; 1932, 10¢; 1933, 10¢.

Miscellaneous:**Agricultural Experiment Stations:**

*1926, 20¢; *1927, 15¢; *1928, 20¢; *1929, 15¢; 1930, 15¢; 1931, 10¢;
1932, 5¢.

Cooperative Extension Work:

*1926, 15¢; *1927, 25¢; *1928, 30¢; *1929, 15¢.

Extension Work in Agriculture and Home Economics:

1931, 10¢; *1932, 10¢.

Annual Reports of the Chiefs of—**Bureau of Agricultural Economics:**

*1922, 5¢; *1923, 10¢; *1924, 5¢; *1925, 10¢; *1926, 5¢; *1927, 10¢; *1928,
5¢; *1929, 10¢; *1930, 10¢; *1931, 10¢; 1932, 5¢; 1933, 5¢.

Bureau of Agricultural Engineering:

*1932, 5¢; 1933, 5¢.

Bureau of Animal Industry:

*1922, 10¢; *1923, 5¢; *1924, 5¢; *1925, 5¢; *1926, 5¢; *1927, 5¢; *1928, 5¢;
*1929, 10¢; *1930, 10¢; *1931, 10¢; 1932, 5¢; 1933, 5¢.

Bureau of Biological Survey:

*1921, 5¢; *1922, 5¢; *1923, 5¢; *1924, 5¢; *1925, 5¢; *1926, 5¢; *1927, 5¢;
*1928, 5¢; *1929, 5¢; *1930, 10¢; *1931, 10¢; 1932, 5¢; 1933, 5¢.

Bureau of Chemistry and Soils:

*1928, 5¢; *1929, 5¢; *1930, 10¢; *1931, 10¢; 1932, 5¢; 1933, 5¢.

Bureau of Dairy Industry:

*1930, 5¢; *1931, 5¢; *1932, 5¢; 1933, 5¢.

Bureau of Entomology:

*1916, 5¢; *1918, 5¢; *1921, 5¢; *1922, 5¢; *1923, 5¢; *1924, 5¢; *1925, 5¢;
*1926, 5¢; *1927, 5¢; *1928, 5¢; *1929, 5¢; *1930, 10¢; 1931, 10¢; 1932,
5¢; 1933, 5¢.

Office of Experiment Stations:

*1915, 5¢; *1922, 5¢; *1920, 10¢; *1924, 5¢; *1925, 5¢; *1926, 5¢; *1927, 5¢;
*1929, 5¢; *1930, 5¢; *1931, 5¢; 1932, 5¢; 1933, 5¢.

Extension Service:

*1924, 5¢; *1925, 5¢; *1926, 5¢; *1927, 5¢; *1928, 5¢; *1929, 5¢; *1930, 10¢.

Food and Drug Administration:

*1930, 5¢; 1931, 5¢; 1932, 5¢; 1933, 5¢.

Forest Service:

*1919, 5¢; *1926, 10¢; *1927, 10¢; *1928, 10¢; *1930, 10¢; *1931, 10¢; 1932,
5¢; 1933, 5¢.

Grain Futures Administration:

*1931, 5¢; *1932, 5¢; 1933, 5¢.

Bureau of Home Economics:

*1924, 5¢; *1927, 5¢; *1928, 5¢; *1929, 5¢; *1930, 5¢; *1931, 5¢; *1932, 5¢;
1933, 5¢.

Office of Information:

1931, 5¢; 1932, 5¢; 1933, 5¢.

Library:

*1922, 5¢; *1923, 5¢; *1924, 5¢; *1925, 5¢; *1926, 5¢; *1927, 5¢; *1929, 5¢;
*1930, 5¢; *1931, 5¢; *1932, 5¢; 1933, 5¢.

Personal and Business Administration:

1931, 5¢; 1933, 5¢.

Bureau of Plant Industry:

*1917, 5¢; *1918, 5¢; *1919, 5¢; *1920, 10¢; *1921, 5¢; *1922, 5¢; *1923, 5¢;
*1924, 5¢; *1925, 5¢; *1926, 5¢; *1927, 5¢; *1928, 5¢; *1929, 5¢; *1930, 5¢;
1931, 5¢; *1932, 5¢; 1933, 5¢.

Plant Quarantine and Control Administration:

*1930, 10¢; *1931, 15¢; 1932, 5¢.

Bureau of Plant Quarantine:

1933, 5¢.

Bureau of Public Roads:

*1918, 5¢; *1924, 5¢; *1926, 5¢; *1927, 5¢; *1928, 5¢; *1929, 10¢; *1931, 5¢;
1932, 5¢; 1933, 5¢.

Bureau of Soils:

*1917, 5¢; *1922, 5¢; *1923, 5¢; *1924, 5¢; *1926, 5¢; *1927, 5¢.

Solicitor's Office:

*1930, 5¢; 1931, 5¢; 1932, 5¢; 1933, 5¢.

Weather Bureau:

1933, 5¢.

Annual Reports of the Agricultural Experiment Stations:**Alaska:**

*1903, 5¢; *1907, 15¢; *1909, 20¢; *1911, 20¢; *1913, 20¢; *1914, 20¢; *1915, 15¢; *1916, 20¢; *1917, 10¢; *1918, 15¢; *1919, 25¢; *1920, 10¢; *1921, 10¢; *1923, 10¢; *1924, 10¢; *1925, 10¢; *1926, 10¢; *1927, 10¢; *1928, 10¢; *1929, 10¢; 1930, 15¢; 1931-32, 5¢.

Guam:

*1911, 10¢; *1912, 5¢; *1913, 5¢; *1914, 10¢; *1915, 10¢; *1916, 10¢; *1917, 10¢; *1918, 10¢; *1919, 15¢; *1920, 10¢; *1921, 10¢; *1922, 10¢; *1923, 5¢; *1924, 5¢; *1925, 10¢; *1926, 10¢; *1927, 10¢; *1928, 10¢; *1929, 5¢; 1930, 15¢; 1930-31, 1931-32, 5¢.

Hawaii:

*1910, 10¢; *1913, 10¢; *1916, 10¢; *1919, 15¢; *1920, 10¢; *1921, 10¢; *1922, 10¢; *1923, 5¢; *1924, 10¢; *1925, 10¢; *1926, 5¢; *1927, 10¢; *1928, 10¢; *1929, 10¢; 1930, 10¢; 1931, 5¢; *1932, 5¢.

Puerto Rico:

*1908, 5¢; *1917, 10¢; *1918, 5¢; *1919, 5¢; *1920, 10¢; *1921, 10¢; *1922, 10¢; *1924, 10¢; *1925, 10¢; *1927, 10¢; *1928, 10¢; *1929, 5¢; 1930, 10¢; 1931, 10¢; *1932, 5¢.

Virgin Islands:

*1919, 5¢; *1920, 5¢; *1921, 5¢; *1922, 5¢; *1923, 5¢; *1924, 10¢; *1925, 5¢; *1926, 5¢; *1927, 10¢; *1928, 5¢; *1929, 10¢; *1930, 5¢; 1931, 10¢; 1932, 5¢.

Office of Experiment Stations Bulletins:¹

- *2 Digest of the annual reports of the agricultural experiment stations in the U.S. for 1888. Part I. Index, pp. 258. Part II. Index, pp. 173. 1891. 75¢.
- *7 Proceedings of the fifth annual convention of the Association of American Agricultural Colleges and Experiment Stations, held at Washington, D.C., August 12-18, 1891. 10¢.
- *16 Proceedings of the sixth annual convention of the Association of American Agricultural Colleges and Experiment Stations, held at New Orleans, La., November 15-19, 1892. 10¢.
- *24 Proceedings of the eighth annual convention of the Association of American Agricultural Colleges and Experiment Stations, held at Washington, D.C., November 13-15, 1894. 5¢.
- *30 Proceedings of the ninth annual convention of the Association of American Agricultural Colleges and Experiment Stations, held at Denver, Colo., July 16-18, 1895. 10¢.
- *41 Proceedings of the tenth annual convention of the Association of American Agricultural Colleges and Experiment Stations, held at Washington, D.C., November 10-12, 1896. 10¢.
- *65 Proceedings of the twelfth annual convention of the Association of American Agricultural Colleges and Experiment Stations, held at Washington, D.C., November 15-17, 1898. 10¢.
- *94 Fourth report on the agricultural investigations in Alaska, 1900. 20¢.
- *99 Proceedings of the fourteenth annual convention of the Association of American Agricultural Colleges and Experiment Stations, New Haven and Middleton, Conn., November 13-15, 1900. 15¢.
- *123 Proceedings of the sixteenth annual convention of the Association of American Agricultural Colleges and Experiment Stations, Atlanta, Ga., October 7-9, 1902. 10¢.
- *184 Proceedings of the twentieth annual convention of the Association of American Agricultural Colleges and Experiment Stations, Baton Rouge, La., November 14-16, 1906. 20¢.
- *196 Proceedings of the twenty-first annual convention of the Association of American Agricultural Colleges and Experiment Stations, Lansing, Mich., May 28-30, 1907. 15¢.
- *228 Proceedings of the twenty-third annual convention of the Association of American Agricultural Colleges and Experiment Stations, Portland, Oreg., August 18-20, 1909. 10¢.

Bureau of Plant Industry Circular:¹

- *75 Agricultural survey of four townships in southern New Hampshire. 5¢.

RICE

(See also Diseases; Insects; Experiment Station Work)

Farmers' Bulletins:

- 1092 F. Prairie rice culture. 5¢.
- *1195 F. Rice as food [with recipes]. 5¢.
- *1240 F. How to grow rice in Sacramento Valley. 5¢.
- 1420 F. Handling rough rice to produce high grades. 5¢.

Department Bulletins:

- *1127 D. Some new varieties of rice. 10¢.
- *1356 D. Experiments in rice production in southwestern Louisiana. 10¢.

Technical Bulletins:

- 297 T. Factors affecting the price of rice. 5¢.

¹ These publications belong to an early series, the studies having been made and the material prepared for issuance prior to 1914.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Circulars:

- *48 C. Improved apparatus and method for making shellings of rough rice. 10¢.
- 136 C. The Gehl laboratory rice-scouring device. 5¢.
- *292 C. Artificial drying of rice on the farm. 5¢.

Miscellaneous Publications:

- 132 MP. Rice and its by-products for feeding livestock. 5¢.

Miscellaneous:

- Handbook of official standards for milled rice, brown rice, and rough rice.

ROADS—BRIDGES**Department Bulletins:**

- *105 D. Progress reports of experiments in dust prevention and road preservation, 1913. 5¢.
- *249 D. Portland cement concrete pavements for country roads. 15¢.
- *257 D. Progress reports of dust prevention and road preservation, 1914. 10¢.
- *347 D. Methods for determination of properties of road-building rock. 10¢.
- *407 D. Progress reports of experiments in dust prevention and road preservation, 1915. 10¢.
- *532 D. Expansion and contraction of concrete and concrete roads. 10¢.
- *691 D. Typical specifications for bituminous road materials. 10¢.
- *1077 D. Portland cement concrete roads. 15¢.
- 1216 D. Tentative standard methods of sampling and testing highway materials, adopted by American Association of State Highway Officials, and approved by Secretary of Agriculture for use in connection with Federal-aid road construction. Revised, 1923. 30¢.
- *1259 D. Standard specifications for steel highway bridges, adopted by American Association of State Highway Officials and approved by Secretary of Agriculture for use in Federal-aid road work. 10¢.
- 1279 D. Rural highway mileage, income, and expenditures, 1921 and 1922. 15¢.

Technical Bulletins:

- 55 T. Highway bridge surveys. 20¢.
- 265 T. Electrical equipment on movable bridges. 35¢.

Department Circulars:

- 331 DC. Standard specifications for corrugated metal pipe culverts, adopted by American Association of State Highway Officials and approved by Secretary of Agriculture for use in connection with Federal-aid road work. 5¢.

Miscellaneous Circulars:

- 62 MC. Standards governing plans, specifications, contract forms, and estimates for Federal-aid highway projects, as provided in rules and regulations for carrying out Federal highway act and amendments thereto (except its provisions relative to forest roads), approved by Secretary of Agriculture and containing standards of practice for plans and specifications adopted by American Associations of State Highway Officials. 5¢.
- 109 MC. Federal legislation and regulations relating to improvement of Federal-aid roads, and national-forest roads and trails. 10¢.

Miscellaneous Publications:

- 76 MP. The results of physical tests of road-building rock. 25¢.

Yearbook Separates:

- *849 Y. Roads. 5¢.

Miscellaneous:

- *Desk-size map showing the numbered system of United States highways. 15¢.
- *Progress maps showing the status of improvement of the Federal-aid highway system in the 48 States. 114 sheets at 10¢ per sheet.
- Analysis of concrete arches. 10¢.

RODENTS—PREDATORY ANIMALS—OTHER MAMMALS

(See also Fur-Bearing Animals)

Farmers' Bulletins:

- *525 F. Raising guinea pigs. 5¢.
- 702 F. Cottontail rabbits in relation to trees and crops. 5¢.
- 1247 F. American moles as agricultural pests and fur producers. 5¢.
- 1397 F. Mouse control in field and orchard. 5¢.
- 1533 F. Rat control. 5¢.
- 1638 F. Rat-proofing buildings and premises. 5¢.
- 1709 F. Pocket-gopher control. 5¢.
- 1716 F. Mole control. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Leaflets:

- 21 L. Woodchuck control in the Eastern States. 5¢.
- 50 L. How to make a cat trap.
- 59 L. Hints on coyote and wolf trapping. 5¢.
- 60 L. Porcupine control in the Western States. 5¢.
- 65 L. Red-squill powder in rat control. 5¢.
- 78 L. Hints on bobcat trapping. 5¢.
- 94 L. Hints on mountain-lion trapping. 5¢.

Department Bulletins:

- *915 D. The toxicity of barium carbonate to rats. 5¢.
- *1091 D. Life history of kangaroo rat. 15¢.
- *1227 D. Damage to range grasses by Zuni prairie dog. 10¢.
- *1395 D. Bats in relation to production of guano and destruction of insects. 5¢.

Technical Bulletins:

- *134 T. Red-squill powders as raticides. 5¢.
- 145 T. Life history and habits of grasshopper mice, genus *Onychomys*. 10¢.
- 222 T. Genetic growth differentiation in guinea pigs. 10¢.
- 224 T. Habits and economic status of the pocket gophers. 10¢.
- 238 T. The pharmacology of thallium and its use in rodent control. 5¢.

Miscellaneous Publications:

- *86 MP. Outlines for studies of mammalian life histories. 5¢.
- 115 MP. Information for the guidance of field men and cooperators of the Bureau of Biological Survey in the control of injurious rodents and predatory animals. 5¢.

Yearbook Separates:

- *708 Y. Destroying rodent pests on the farm. 5¢.
- 725 Y. House rat, most destructive animal in the world. 5¢.
- 823 Y. Trapping on the farm. 5¢.
- *855 Y. Death to the rodents. 5¢.

Miscellaneous:

- *Colored poster: Vandals of the night, while America sleeps, rats destroy entire labor of 200,000 men and pestilence lurks in their wake. For use in encouraging control of rats in cooperative campaigns. 5¢.

RUBBER**Department Bulletins:**

- *1286 D. South American leaf disease of Para rubber. 10¢.
- 1380 D. Pathological survey of the Para rubber tree (*Hevea brasiliensis*) in Amazon Valley. 50¢.
- *1422 D. Hevea rubber tree in Amazon Valley. 15¢.

Technical Bulletins:

- *65 T. Experimental tapping of Hevea rubber trees at Bayeux, Haiti, 1924-25. 5¢.

RYE**Farmers' Bulletins:**

- 756 F. Culture of rye in the eastern half of the United States. 5¢.
- 1358 F. Growing rye in western half of United States. 5¢.
- 1607 F. Nematode disease of wheat and rye. 5¢.

Department Circulars:

- 246 DC. United States grades for rye. 5¢.

Miscellaneous Publications:

- 131 MP. A dangerous neighbor [common barberry] for wheat, oats, barley, and rye. 5¢.

SEEDS—SEED PRODUCTION**Farmers' Bulletins:**

- *428 F. Testing farm seeds in the home and in the rural school. 5¢.
- 948 F. Rag-doll seed tester: Its use in determining what ears of corn are fit for seed. 5¢.
- 1232 F. Seed-marketing hints for the farmer. 5¢.
- 1390 F. Vegetable seed for home and market garden. 5¢.
- 1496 F. Inoculation of legumes and nonlegumes with nitrogen-fixing and other bacteria. 5¢.

Leaflets:

- 93 L. Red-clover seed production in the intermountain States. 5¢.

Technical Bulletins:

- *260 T. Results of seed-treatment experiments with yellow dent corn. 20¢.
- 261 T. Longevity and germination of seeds of *Ribes* [currants and gooseberries], particularly *R. rotundifolium*, under laboratory and natural conditions. 15¢.

Department Circulars:

- 406 DC. Rules for seed testing. 5¢.

Circulars:

- *20 C. Seed production from sugar beets overwintered in field. 5¢.
- *53 C. Seed counter. 5¢.
- *79 C. The application of statistical methods to seed testing. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Circulars—Continued.

153 C. Methods of seed production from sugar beets overwintered in the fields. 10¢.

210 C. Field tests of imported red-clover seed. 5¢.

Yearbook Separates:

*757 Y. Seed supply of the Nation. 5¢.

Miscellaneous:

The following publications belong to an early series, the studies having been made and the material prepared for issuance prior to 1914:

*Seeds of commercial saltbushes. (Botany Bulletin 27.) 15¢.

*Seed sterilization and its effect upon seed inoculation. (Bureau of Plant Industry Circular 67.) 5¢.

SHEEP—GOATS—WOOL

(See also Diseases; Insects; Marketing)

Farmers' Bulletins:

576 F. Breeds of sheep for the farm. 5¢.

810 F. Equipment for farm sheep raising. 5¢.

*840 F. Farm sheep raising for beginners. 5¢.

920 F. Milk goats. 5¢.

1134 F. Castrating and docking lambs. 5¢.

1172 F. Farm slaughtering and use of lamb and mutton. 5¢.

1181 F. Sheep on temporary pastures. 5¢.

1199 F. Judging sheep. 5¢.

1203 F. The Angora goat. 5¢.

1268 F. Sheep-killing dogs. 5¢.

1632 F. Karakul sheep. 5¢.

1710 F. Range sheep production. 5¢.

Department Bulletins:

*206 D. Wool grower and the wool trade. 15¢.

996 D. Flushing and other means of increasing lamb yields. 5¢.

Technical Bulletins:

35 T. Studies of occurrence and elimination of kemp fibers in mohair fleeces. 5¢.

85 T. Factors that influence wool production with range Rambouillet sheep. 15¢.

Miscellaneous Circulars:

50 MC. The Angora goat and mohair industry. 30¢.

Yearbook Separates:

709 Y. Progress in handling the wool clip: Development in the West. 5¢.

894 Y. The sheep industry. 15¢.

Miscellaneous:

The following publication belongs to an early series, the studies having been made and the material prepared for issuance prior to 1914:

*Coyote-proof inclosures in connection with range lambing grounds. (Forest Service Bulletin 97.) 10¢.

SILOS—SILAGE

(See also Feeds)

Farmers' Bulletins:

578 F. Making and feeding of silage. 5¢.

825 F. Pit silos. 5¢.

855 F. Homemade silos. 5¢.

Technical Bulletins:

*43 T. Sorgo silage, sorgo fodder, and cottonseed hulls as roughages in rations for fattening calves in the Southwest. 10¢.

Department Circulars:

*319 DC. Composition of sugar-beet pulp and tops and of silage therefrom. 5¢.

Circulars:

*274 C. Comparison of a trench silo with an upright silo. 5¢.

SOILS**Farmers' Bulletins:**

446 F. Choice of crops for alkali land. 5¢.

921 F. Principle of liming of soils. 5¢.

1475 F. Soil productivity as affected by crop rotation. 5¢.

1629 F. Steam sterilization of soil for tobacco and other crops. 5¢.

Department Bulletins:

*141 D. Clyde series of soils. 15¢.

*159 D. Soils of the Sassafras series. 15¢.

*677 D. Soils of southern New Jersey, and their uses. 40¢.

*1005 D. Soils of eastern Virginia and their uses for truck-crop production. 35¢.

1139 D. Storage of water in soil and its utilization by spring wheat. 5¢.

1193 D. Estimation of colloidal material in soils by adsorption. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Department Bulletins—Continued.

- 1221 D. Capillary distribution of moisture in soil columns of small cross section. 5¢.
 1314 D. Bibliography relating to soil alkalies. 10¢.
 1419 D. Factors and problems in selection of peat lands for different uses. 15¢.
 *1452 D. Properties of colloidal soil material. 10¢.

Technical Bulletins:

- *94 T. Soil reconnaissance of the Panama Canal Zone and contiguous territory. 20¢.
 *128 T. Alteration of muscovite and biotite in the soil. 10¢.
 *170 T. A pipette method of mechanical analysis of soils based on improved dispersion procedure. 5¢.
 178 T. Properties of soils which influence soil erosion. 5¢.
 182 T. Factors affecting the mechanical application of fertilizers to the soil. 30¢.
 *211 T. Some methods for detecting differences in soil organic matter. 5¢.
 *214 T. The physical and chemical characteristics of certain American peat profiles. 5¢.
 *220 T. A study of the influence of herbaceous plant cover on surface run-off and soil erosion in relation to grazing on the Wasatch plateau, in Utah. 20¢.
 228 T. Characters of the colloidal material in the profiles of certain major soil groups. 5¢.
 229 T. Variations of the colloidal material extracted from the soils of the Miami, Chester, and Cecil series. 5¢.
 232 T. A laboratory study of the field percolation rates of soils. 5¢.
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The majority of the edition of each report is distributed by the United States Senators and Representatives from the areas surveyed; a limited number are available for distribution by the Bureau of Chemistry and Soils, United States Department of Agriculture. Editions are inadequate to meet the demand and therefore reports of not more than three separate areas and not to exceed one copy of each report may be sent free to one individual. The price at which these reports may be purchased is indicated, and if more than three reports are desired the request, together with the necessary sum, should be forwarded to the Superintendent of Documents, Government Printing Office.

Many counties not listed have been surveyed, but both the free and sale stocks are entirely exhausted. They may be consulted in any of the public libraries which keep a file of all soil surveys.

Beginning with the 1923 series, soil survey reports have been issued separately. Reports of the individual areas are sent to libraries as soon as they are available, and they should be filed, preserved, and ultimately bound to take the place of the bound volumes of the field operations which were previously supplied by the Department, and which were discontinued with the edition of 1922. The reports for each year are now consecutively numbered, the last report for a particular year bearing the conspicuous notice: "This number is the final and last soil survey for the year 193-."

ALABAMA

- *Cherokee County. 20¢.
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 Clayton County. 15¢.
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 Wayne County. 15¢.
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 Winnebago County. 15¢.
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 Russell County. (See Russell Area.)
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Reconnaissance

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 Cole County. 20¢.
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 *Dekalb County. 15¢.
 *Dunklin County. 15¢.
 *Johnson County. 15¢.
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 Smith County. 15¢.
 Knox County. 15¢.
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 Hill County. (See Milk River Area.)
 Milk River Area (parts of Blaine, Hill, Phillips and Valley Counties).
 60¢.
 Missoula County. (See Bitter Root Valley Area.)
 Phillips County. (See Milk River Area.)
 *Ravalli County. (See Bitter Root Valley Area.)
 Valley County. (See Milk River Area.)

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- *Gosper County. (See Kearney Area.)
- *Grand Island Area (parts of Buffalo, Hall, Hamilton, and Merrick Counties). 15¢.
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- Hall County. (See also Grand Island Area.)
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- Hamilton County. (See also Grand Island Area.)
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- Kearney County. (See also Kearney Area.)
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- *North Platte Area (part of Lincoln County). 15¢.
- Nuckolls County. 20¢.
- Pawnee County. 15¢.
- Perkins County. 25¢.
- Phelps County. 15¢.
- Phelps County. (See also Kearney Area.)
- Pierce County. (See Stanton Area.) 20¢.
- Platte County. 20¢.
- *Polk County. 15¢.
- Redwillow County. 15¢.
- Saline County. 10¢.
- Sheridan County. 40¢.
- Sioux County. 25¢.
- *Stanton Area (parts of Madison, Pierce, Stanton, and Wayne Counties.) 15¢.
- Stanton County. 20¢.
- Stanton County. (See also Stanton Area.)
- Thayer County. 15¢.
- Wayne County. (See Stanton Area.) 15¢.
- Webster County. 25¢.
- York County. 20¢.

NEVADA

- Clark County. (See Las Vegas and Moapa Valley Areas.)
- Churchill County. (See Fallon Area.)
- *Fallon Area (part of Lyon and Churchill Counties). 25¢.
- Las Vegas Area (part of Clark County). 15¢.
- Lyon County. (See Fallon Area.)
- Moapa Valley Area (part of Clark County). 20¢.

NEW JERSEY

- Atlantic County. (See Chatsworth and Millville Areas.)
- Belvidere Area (parts of Hunterdon, Mercer, Morris, Somerset, Sussex and Warren Counties). 25¢.
- Bergen Area (parts of Bergen, Essex, Hudson, Middlesex, Morris, Passaic, and Union Counties). 20¢.
- Bergen Co. (See Bergen Area.)
- Bernardsville Area (parts of Hunterdon, Middlesex, Morris, Somerset, Sussex, and Union Counties). 25¢.
- Burlington County. (See Chatsworth and Trenton Areas.)
- Camden County. (See Chatsworth Area.)
- Cape May County. (See Millville Area.)
- Chatsworth Area (all of Ocean County and parts of Atlantic, Burlington, Camden, and Monmouth Counties). 25¢.
- Cumberland County. (See Millville Area.)
- Essex County. (See Bergen Area.)
- Freehold Area (parts of Middlesex and Monmouth Counties). 20¢.
- Gloucester County. (See Millville Area.)
- Hudson County. (See Bergen Area.)
- Hunterdon County. (See Belvidere, and Bernardsville Areas.)

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- Mercer County. (See Belvidere and Trenton Areas.)
 Middlesex County. (See Bergen, Bernardsville, and Trenton Areas.)
 Millville Area (Cape May County and parts of Atlantic, Cumberland, Gloucester and Salem Counties). 25¢.
 Monmouth County. (See Chatsworth and Trenton Areas.)
 Morris County. (See Belvidere, Bergen, and Bernardsville Areas.)
 Ocean County. (See Chatsworth and Trenton Areas.)
 Passaic County. (See Bergen Area.)
 Salem Area (parts of Cumberland, Gloucester, and Salem Counties). 25¢.
 Salem County. (See Millville and Salem Areas.)
 Somerset County. (See Belvidere, Bernardsville and Trenton Areas.)
 Sussex County. (See Belvidere and Bernardsville Areas.)
 *Trenton Area (parts of Burlington, Mercer, Middlesex, Monmouth, Ocean, and Somerset Counties). 25¢.
 Union County. (See Bergen and Bernardsville Areas.)
 Warren County. (See Belvidere Area.)

NEW MEXICO

- De Baca County. (See Fort Sumner Area.)
 Deming Area (part of Luna County). 10¢.
 Dona Ana County. (See Rincon Area.)
 Fort Sumner Area (part of De Baca County). 15¢.
 Luna County. (See Deming Area.)
 *Rincon Area (parts of Dona Ana and Sierra Counties). 35¢.
 Rio Puerco Area. (See Socorro and Rio Puerco Areas.)
 Sierra County. (See Rincon Area.)
 Socorro County. (See Socorro and Rio Puerco Areas.)
 Socorro and Rio Puerco Areas (part of Socorro County). 15¢.

NEW YORK

- *Bigflats Area (parts of Chemung and Steuben Counties). 15¢.
 Cayuga County. 25¢.
 Chemung County. (See Bigflats Area.)
 Chenango County. 25¢.
 *Clinton County. 15¢.
 Columbia County. 25¢.
 Delaware County. 40¢.
 Erie County. 30¢.
 Essex County. (See Vergennes Area, Vt.)
 Genesee County. 25¢.
 Herkimer County Area (part of Herkimer County). 25¢.
 Nassau County. (See Suffolk and Nassau Counties.)
 Oswego County. 15¢.
 Putnam County. (See White Plains Area.)
 Rockland County. (See White Plains Area.)
 Saratoga County. 15¢.
 Steuben County. (See Bigflats Area.)
 St. Lawrence County. 50¢.
 Suffolk and Nassau Counties. 70¢.
 *Washington County. 25¢.
 Wayne County. 25¢.
 Westchester County. (See White Plains Area.)
 *Westfield Area (part of Chautauqua County.) 15¢.
 White Plains Area (Putnam, Rockland, and Westchester Counties). 25¢.
 Yates County. 15¢.

NORTH CAROLINA

- *Anson County. 15¢.
 *Ashe County. 15¢.
 Beaufort County. 15¢.
 Bertie County. 20¢.
 Buncombe County. 25¢.
 Burke County. 15¢.
 Caldwell County. 15¢.
 Camden and Currituck Counties. 20¢.
 Cherokee County. 15¢.
 *Cleveland County. 15¢.
 Craven County. (See Raleigh to Newbern Area.)
 Cumberland County. 25¢.
 Currituck County. (See Camden and Currituck Counties.)
 *Davidson County. 15¢.
 Davie County. 15¢.
 Durham County. 15¢.
 *Edgecombe County. 15¢.
 Gates County. 20¢.
 *Granville County. 15¢.
 Greene County. (See Raleigh to Newbern Area.) 15¢.
 Guilford County. 15¢.

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- Halifax County. 15¢.
 Haywood County. 20¢.
 Hoke County. 20¢.
 Jones County. (See Raleigh to Newbern Area.)
 Lenoir County. 15¢.
 Lenoir County. (See also Raleigh to Newbern Area.)
 *Lincoln County. 15¢.
 Macon County. 20¢.
 Madison County. (See Greeneville Area, Tenn.)
 Martin County. 20¢.
 Moore County. 15¢.
 Nash County. 15¢.
 Northampton County. 20¢.
 Onslow County. 25¢.
 Orange County. 25¢.
 Person County. 15¢.
 Polk County. 15¢.
 *Raleigh to Newbern Area (parts of Craven, Greene, Johnston, Jones, Lenoir, Wake, and Wayne Counties). 15¢.
 *Randolph County. 15¢.
 *Richmond County. 15¢.
 Rockingham County. 20¢.
 *Rutherford County. 20¢.
 Sampson County. 20¢.
 *Scotland County. 15¢.
 Stanly County. 15¢.
 Tyrrell County. 15¢.
 Vance County. 15¢.
 Watauga County. 10¢.
 Wilkes County. 25¢.
 Wilson County. 20¢.
 Yadkin County. 15¢.

NORTH DAKOTA

- Adams County. (See Morton Area.)
 *Barnes County. 15¢.
 *Bottineau County. 25¢.
 *Cando Area (part of Towner County). 15¢.
 *Carrington Area (parts of Foster and Griggs Counties). 15¢.
 Cass County. (See Fargo Area.) 35¢.
 *Dickey County. 15¢.
 *Fargo Area (part of Cass County). 15¢.
 *Foster County. (See Carrington Area.)
 *Grand Forks Area (part of Grand Forks County). 15¢.
 Grand Forks County. (See Grand Forks Area.)
 Griggs County. (See Carrington Area.)
 Hettinger County. (See Morton Area.)
 McHenry County. 25¢.
 *McKenzie Area (part of McKenzie County). 15¢.
 McKenzie County. (See McKenzie Area.)
 *Morton Area (part of Adams, Hettinger, and Morton Counties). 15¢.
 Morton County. (See Morton Area.)
 Towner County. (See Cando Area.)
 Traill Co. 15¢.

OHIO

- *Ashtabula Area (part of Ashtabula County). 15¢.
 Ashtabula County. (See Ashtabula Area.)
 *Auglaize County. 15¢.
 Belmont County. 20¢.
 Butler County. 20¢.
 Clermont County. 25¢.
 *Cleveland Area (parts of Cuyahoga, Lorain, Medina, and Summit Counties). 15¢.
 *Columbus Area (parts of Fairfield, Franklin, Licking, Madison, and Pickaway Counties). 15¢.
 *Coshocton County. 15¢.
 Cuyahoga County. (See Cleveland Area.)
 Delaware County. (See Westerville Area.)
 Fairfield County. (See Columbus Area.)
 Franklin County. (See Columbus and Westerville Areas.)
 Fulton County. 20¢.
 *Geauga County. 15¢.
 Lake County. 25¢.
 Licking County. (See Columbus and Westerville Areas.)
 Lorain County. (See Cleveland Area.)
 Lucas County. (See Toledo Area.)
 Madison County. (See Columbus and Westerville Areas.)
 Mahoning County. 15¢.
 Marion County. 15¢.

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- Medina County. (See Cleveland and Wooster Areas.)
 *Meigs County. 15¢.
 Miami County. 15¢.
 *Montgomery County. 15¢.
 Muskingum County. 25¢.
 Ottawa County. 40¢.
 Ottawa County. (See also Toledo Area.)
 *Paulding County. 15¢.
 Pickaway County. (See Columbus Area.)
 *Portage County. 15¢.
 Sandusky County. 25¢.
 *Stark County. (See Wooster Area.) 15¢.
 Summit County. (See Cleveland and Wooster Areas.)
 *Toledo Area (parts of Lucas, Ottawa, and Wood Counties, Ohio; and Monroe County, Mich.). 15¢.
 Union County. (See Westerville Area.)
 Washington County. 15¢.
 Wayne County. (See Wooster Area.)
 *Westerville Area (parts of Delaware, Franklin, Licking, Madison, and Union Counties). 15¢.
 Wood County. (See Toledo Area.)
 *Wooster Area (parts of Medina, Stark, Summit, and Wayne Counties). 15¢.

OKLAHOMA

- Canadian County. 15¢.
 *Muskogee County. 15¢.
 Payne County. 15¢.
 *Roger Mills County. 15¢.

OREGON

- *Baker City Area (parts of Baker and Union Counties). 15¢.
 Baker County. (See Baker City Area.)
 Benton County. 25¢.
 Clackamas County. 25¢.
 Grande Ronde Valley Area (part of Union County). 25¢.
 Josephine County. 25¢.
 Linn County. 50¢.
 Marion County. 20¢.
 Multnomah County. 25¢.
 Polk County. 25¢.
 Union County. (See Baker City and Grande Ronde Valley Areas.)
 *Washington County. 25¢.
 Yamhill County. 25¢.

PENNSYLVANIA

- Adams County. 15¢.
 *Bedford County. 15¢.
 Blair County. 15¢.
 Cambria County. 15¢.
 Clearfield County. 15¢.
 Clinton County. (See Lockhaven Area.)
 Dauphin County. (See Lebanon Area.)
 Greene County. 15¢.
 *Lebanon Area (parts of Dauphin, Lancaster and Lebanon Counties). 15¢.
 Lebanon County. (See Lebanon Area.)
 *Lockhaven Area (part of Clinton County). 15¢.
 Lycoming County. 20¢.
 Mercer County. 15¢.
 *Washington County. 15¢.
 *York County. 15¢.

PUERTO RICO

- *Arecibo to Ponce. 15¢.

SOUTH CAROLINA

- *Berkeley County. 25¢.
 *Campobello Area (parts of Greenville and Spartanburg Counties). 15¢.
 *Clarendon County. 15¢.
 *Florence County. 15¢.
 Greenville County. (See Campobello Area.)
 Greenville County. 15¢.
 Horry County. 35¢.
 Kershaw County. 25¢.
 *Lancaster County. 15¢.
 Lexington County. 25¢.
 Marlboro County. 15¢.
 Newberry County. 30¢.
 Richland County. 15¢.
 Spartanburg County. (See Campobello Area.)
 Spartanburg County. 25¢.
 Williamsburg County. 15¢.

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SOUTH DAKOTA

- Beadle County. 25¢.
 *Brookings Area (part of Brookings County). 15¢.
 Brookings County. (See Brookings Area.)
 Brown County. 25¢.
 Douglas County. 15¢.
 Grant County. 20¢.
 Hyde County. 20¢.
 McCook County. 15¢.
 Moody County. 15¢.
 Union County. 20¢.
 Walworth County. 20¢.

Reconnaissance

- *Western South Dakota (Armstrong, Bennett, Butte, Corson, Custer, Dewey, Fall River, Gregory, Harding, Lawrence, Lyman, Meade, Mellette, Pennington, Perkins, Shannon, Stanley, Todd, Tripp, Washabaugh, Washington, and Schansee Counties). 10¢.

TENNESSEE

- Bledsoe County. (See Pikeville Area.)
 Cocke County. (See Greeneville Area.)
 *Coffee County. 15¢.
 Cumberland County. (See Pikeville Area.)
 *Davidson County. 15¢.
 Dickson County. 20¢.
 *Giles County. 15¢.
 *Grainger County. 15¢.
 Greene County. (See Greeneville Area.)
 *Greeneville Area (parts of Cocke, Greene, Hawkins, and Sullivan Counties, Tenn., and Madison Counties, N.C.). 15¢.
 Hardin County. 15¢.
 Hawkins County. (See Greeneville Area.)
 *Henderson County. 15¢.
 Henry County. 25¢.
 *Jackson County. 15¢.
 *Lawrence County. 15¢.
 *Madison County. 15¢.
 Maury County. 25¢.
 Meigs County. 15¢.
 *Overton County. 15¢.
 *Pikeville Area (parts of Bledsoe, Cumberland, Rhea, and Van Buren Counties). 15¢.
 *Putnam County. 15¢.
 Rhea County. (See Pikeville Area.)
 *Robertson County. 15¢.
 Shelby County. 15¢.
 Sullivan County. (See Greeneville Area.)
 Van Buren County. (See Pikeville Area.)

TEXAS

- Bell County. 25¢.
 Bowie County. 25¢.
 Coleman County. 25¢.
 Denton County. 25¢.
 Dickens County. 20¢.
 Eastland County. 15¢.
 Erath County. 25¢.
 Freestone County. 25¢.
 Henderson County. 20¢.
 Lubbock County. 15¢.
 Midland County. 20¢.
 Milam County. 30¢.
 Nacogdoches County. 25¢.
 Navarro County. 20¢.
 Reeves County. 20¢.
 Rockwall County. 20¢.
 Tarrant County. 25¢.
 Taylor County. 15¢.
 Tyler County. (See Woodville Area.)
 Van Zandt County. 30¢.
 Victoria County. 25¢.
 Wichita County. 20¢.
 Willacy County. 20¢.
 *Woodville Area (part of Tyler County). 15¢.

Reconnaissance

- Northwest Texas (Baily, Cochran, Cottle, Crosby, Dickens, Floyd, Foard, Garza, Hale, Hardeman, Haskell, Hockley, Kent, King, Knox, Lamb, Lubbock, Lynn, Motley, Stonewall, Terry, and Yoakum Counties). 25¢.

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West Central Texas (Andrews, Borden, Coke, Concho, Crane, Dawson, Ector, Fisher, Gaines, Glasscock, Howard, Irion, Jones, Loving, Martin, Midland, Mitchell, Nolan, Reagan, Runnels, Scurry, Sterling, Taylor, Tom Green, Upton, Ward, and Winkler Counties). 30¢.

UTAH

- Ashley Valley (part of Uinta County). 15¢.
 *Bear River Area (part of Box Elder County). 25¢.
 Box Elder County. (See Bear River Area.)
 *Cache Valley Area (part of Cache County). 15¢.
 Cache County. (See Cache Valley Area.)
 Delta Area (part of Millard County). 15¢.
 Millard County. (See Delta Area.)
 Uinta River Valley Area (part of Uinta County). 25¢.
 Uinta County. (See Ashley Valley and Uinta River Valley Areas.)
 *Weber County. 15¢.

VERMONT

- Addison County. (See Vergennes Area.)
 *Vergennes Area (part of Addison County, Vt., and Essex County, N.Y.). 15¢.
 Windsor County. 15¢.

VIRGINIA

- Accomac and Northampton Counties. 30¢.
 *Frederick County. 15¢.
 *Louisa County. 15¢.
 *Montgomery County. 15¢.
 Northampton County. (See Accomac and Northampton Counties.)
 Pittsylvania County. 25¢.

VIRGIN ISLANDS

- Reconnaissance of St. Croix Island. 20¢ (TB-315).

WASHINGTON

- Benton County. 15¢.
 Chelan County. (See Wenatchee Area.)
 *Franklin County. 35¢.
 *Hood River—White Salmon River Area, Oregon-Washington (parts of Hood River County, Oreg., and Klickitat and Skamania Counties, Wash.). 15¢.
 Klickitat County. (See Hood River Area.)
 Skamania County. (See Hood River Area.)
 *Walla Walla Area (part of Walla Walla County). 15¢.
 Walla Walla County. (See Walla Walla Area.)
 Wenatchee Area (part of Chelan County). 25¢.

Reconnaissance

- *Southwestern Washington (Clarke, Cowlitz, Pacific, and Wahkium Counties, and parts of Lewis and Skamania Counties). 25¢

WEST VIRGINIA

- Barbour and Upshur Counties. 15¢.
 Berkeley County. (See Jefferson, Berkeley, and Morgan Counties.)
 *Boone County. 15¢.
 Braxton and Clay Counties. 25¢.
 Brooke County. (See Wheeling Area.)
 Cabell County. (See Huntington Area.)
 Calhoun County. (See Spencer Area.)
 Clay County. (See Braxton and Clay Counties.)
 Fayette County. 20¢.
 Gilmer County. (See Lewis and Gilmer Counties.)
 Grant and Mineral Counties. 25¢.
 Hampshire County. 20¢.
 Hancock County. (See Wheeling Area.)
 *Huntington Area (Cabell, Lincoln, and Wayne Counties). 25¢.
 Jackson County. (See Point Pleasant Area.)
 Jefferson County. (See Jefferson, Berkeley, and Morgan Counties.)
 Jefferson, Berkeley, and Morgan Counties. 25¢.
 *Kanawha County. 15¢.
 *Lewis and Gilmer Counties. 15¢.
 Lincoln County. (See Huntington Area.)
 *Logan and Mingo Counties. 15¢.
 *McDowell and Wyoming Counties. 15¢.
 Marion County. (See Morgantown Area.)
 Marshall County. (See Middlebourne and Wheeling Areas.)
 Mason County. (See Point Pleasant Area.)
 Mercer County. 20¢.
 *Middlebourne Area (Marshall, Tyler, and Wetzel Counties).
 Mineral County. (See Grant and Mineral Counties.)
 Mingo County. (See Logan and Mingo Counties.)

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- Monongalia County. (See Morgantown Area.)
 Monroe County. 20¢.
 Morgan County. (See Jefferson, Berkeley, and Morgan Counties.)
 *Morgantown Area (Marion, Monongalia and Taylor Counties.) 15¢.
 Nicholas County. 25¢.
 Ohio County. (See Wheeling Area.)
 *Parkersburg Area (Pleasants, Ritchie, and Wood Counties). 15¢.
 Pleasant County. (See Parkersburg Area.)
 *Point Pleasant Area (Jackson, Mason, and Putnam Counties). 25¢.
 *Preston County. 15¢.
 Putnam County. (See Point Pleasant Area.)
 *Raleigh County. 15¢.
 Ritchie County. (See Parkersburg Area.)
 Roane County. (See Spencer Area.)
 *Spencer Area (Calhoun, Roane, and Wirt Counties).
 Summers County. 15¢.
 Taylor County. (See Morgantown Area.)
 Tucker County. 15¢.
 Tyler County. (See Middlebourne Area.)
 Upshur County. (See also Barbour and Upshur Counties.) 15¢.
 Wayne County. (See Huntington Area.)
 Webster County. 15¢.
 Wetzel County. (See Middlebourne Area.)
 *Wheeling Area (Brooke, Hancock and Ohio Counties, and part of
 Marshall Counties.) 15¢.
 Wirt County. (See Spencer Area.)
 Wood County. (See Parkersburg Area.)
 Wyoming County. (See McDowell and Wyoming Counties.)

WISCONSIN

- Adams County. 25¢.
 Ashland County. (See Bayfield Area.)
 *Bayfield Area (parts of Ashland and Bayfield Counties.) 15¢.
 Bayfield County. (See Bayfield Area.)
 Brown County. 30¢.
 *Buffalo County. 15¢.
 Calumet County. 25¢.
 *Columbia County. 15¢.
 Dane County. (See also Janesville Area.) 15¢.
 Douglas County. (See Superior Area.)
 *Fond du Lac County. 15¢.
 Green County. 20¢.
 Green Lake County. 20¢.
 *Iowa County. 15¢.
 Jackson County. 25¢.
 *Janesville Area (parts of Dane and Rock Counties). 15¢.
 *Jefferson County. 15¢.
 *Juneau County. 15¢.
 Kenosha and Racine Counties. 25¢.
 *Kewaunee County. 15¢.
 *La Crosse County. 15¢.
 Manitowoc County. 15¢.
 Monroe County. (See also Viroqua Area.) 25¢.
 Outagamie County. 35¢.
 Ozaukee County. (See Washington and Ozaukee Counties.)
 Pierce County. 20¢.
 Portage County. 15¢.
 Racine County. (See also Kenosha and Racine Counties.) 15¢.
 Rock County. (See Janesville Area.)
 Rock County. 25¢.
 Sauk County. 25¢.
 Sheboygan County. 20¢.
 Superior Area (parts of Douglas County, Wis.; and St. Louis County,
 Minn.). 15¢.
 Trempealeau County. 25¢.
 Vernon County. (See Viroqua Area.)
 Vernon County. 20¢.
 *Viroqua Area (parts of Monroe and Vernon Counties). 15¢.
 Walworth County. 15¢.
 Washington and Ozaukee Counties. 25¢.
 *Waukesha County. 15¢.
 Waupaca County. 15¢.
 *Waushara County. 15¢.
 Winnebago County. 20¢.
 Wood County. 15¢.

Reconnaissance

- *Marinette County. 15¢.
 *Northeastern Wisconsin (Florence, Forest, Langlade, Marinette,
 Oconto, and Shawano Counties). 25¢.
 South part north-central Wisconsin (Clark, Lincoln, Marathon,
 and Taylor Counties). 15¢.

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WYOMING

- Albany County. (See Laramie Area.)
 Basin Area (parts of Big Horn, Park, and Washakie Counties). 60¢.
 Big Horn County. (See Basin and Shoshone Areas.)
 Fort Laramie Area—Wyoming-Nebraska (parts of Goshen County, Wyoming, and Scotts Bluff County, Nebraska). 25¢.
 Goshen County. (See Fort Laramie Area.)
 *Laramie Area (part of Albany County). 25¢.
 Park County. (See Basin and Shoshone Areas.)
 Platte County. (See Wheatland Area.)
 Shoshone Area (parts of Big Horn and Park Counties). 35¢.
 Washakie County. (See Basin Area.)
 Wheatland Area (part of Platte County). 20¢.

STATISTICS—ESTIMATES

- *232 D. The production of lumber in 1913. 5¢.
 *296 D. Our foreign trade in farm and forest products. 10¢.
 *755 D. Geographical phases of farm prices; oats. 10¢.
 *792 D. Reports of storage holdings of certain food products during 1918; frozen meats, cured meats and lard, frozen fish, cured herring, and mild-cured salmon. 10¢.
 806 D. Peaches: Production estimates and important commercial districts and varieties. 10¢.
 *845 D. Production of lumber, lath, and shingles in 1918. 10¢.
 987 D. Handbook of foreign agricultural statistics. 10¢.
 *1083 D. Farm and terminal market prices; wheat, corn, and oats. 10¢.
 1444 D. Cotton prices and markets. 15¢.
 1479 D. Speculative transactions in the 1926 May wheat future. 15¢.
 1480 D. Reliability and adequacy of farm-price data. 15¢.
- Statistical Bulletins:**
- 2 S. Seed statistics, year ending May 31, 1923, with comparable data for earlier years. 15¢.
 3 S. Sheep, lamb, mutton, and wool statistics, year ended March 31, 1923, with comparable data for earlier years. 15¢.
 4 S. Cold-storage holdings to October, 1924. 5¢. (This is a revision of Statistical Bulletin 1.)
 5 S. Horses, mules, and motor vehicles, year ended March 31, 1924, with comparable data for earlier years. 15¢.
 6 S. Grain futures, daily data, volume of trading on Chicago Board of Trade, January 1, 1921, to May 31, 1924. 5¢.
 7 S. Shipments and unloads of certain fruits and vegetables, 1918-1923. 15¢.
 8 S. Carload shipments of fruits and melons from stations in United States for 1920, 1921, 1922, and 1923. 10¢.
 9 S. Carload shipments of vegetables from stations in United States for 1920, 1921, 1922, and 1923. 15¢.
 10 S. Statistics of potatoes and sweet potatoes, year ended July 31, 1924, with comparable data for earlier years. 10¢.
 *11 S. Hay and feed statistics, year ended December 31, 1924, with comparable data for earlier years. 15¢.
 12 S. Wheat and rye statistics, year ended December 31, 1924, with comparable data for earlier years. 15¢.
 13 S. Cold-storage holdings, year ended December, 1925, with comparable data for earlier years. 10¢.
 14 S. Prices of farm products received by producers: 1, North Atlantic States. 20¢.
 15 S. Prices of farm products received by producers: 2, North Central States. 30¢.
 16 S. Prices of farm products received by producers: 3, South Atlantic and South Central States. 35¢.
 17 S. Prices of farm products received by producers: 4, Mountain and Pacific States. 25¢.
 18 S. Statistics of hogs, pork, and pork products, year ended December 31, 1925, with comparable data for earlier years. 30¢.
 19 S. Carload shipments of fruit and vegetables from stations in United States, calendar years 1924 and 1925. 15¢.
 20 S. Statistics of cattle, calves, beef, veal, hides, and skins, year ended December 31, 1925, with comparable data for earlier years. 40¢.
 22 S. Vegetable statistics, year ended December 31, 1926, with comparable data for earlier years. 35¢.
 23 S. Car-load shipments and unloads of important fruits and vegetables, for the calendar years 1924-1926. 35¢.
 24 S. Statistics of fats, oils, and oleaginous raw materials. 15¢.
 25 S. Dairy statistics, year ended December 31, 1926, with comparable data for earlier years. 35¢.
 26 S. Cold-storage holdings, year ended December 31, 1927, with comparable data for earlier years. 5¢.

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Statistical Bulletins—Continued.

- *27 S. Car-lot shipments of fruits and vegetables in the United States for the calendar years 1926 and 1927. 25¢.
- 28 S. Corn statistics, year ended December 31, 1928, with comparable data for earlier years. 25¢.
- 29 S. Statistics of oats, barley, and grain sorghums, year ended December 31, 1928, with comparable data for earlier years. 25¢.
- 30 S. Car-lot shipments and unloads of certain fruits and vegetables, for the calendar years 1927 and 1928.
- 31 S. Wheat futures. 35¢.
- 32 S. Stumpage and log prices for the calendar year 1928. 10¢.
- 33 S. Cold-storage holdings, December 31, 1929. 10¢.
- 34 S. Corn futures, volume of trading, open commitments and prices, from January 3, 1921, to December 31, 1929. 35¢.
- 35 S. Car-lot shipments of fruits and vegetables from stations in the United States for the calendar years 1928 and 1929. 25¢.
- 36 S. Stumpage and log prices for the calendar year 1929. 15¢.
- 37 S. Stumpage and log prices for the calendar year 1930. 15¢.
- 38 S. Car-lot shipments and unloads of important fruits and vegetables. 15¢.
- 39 S. Cold-storage holdings, December 31, 1931. 5¢.
- 40 S. Grade, staple length, and tenderability of cotton in the United States, 1928-29 to 1931-32. 10¢.
- 41 S. Wheat futures. Volume of trading, open commitments and prices from January 2, 1930, to December 31, 1932. 10¢.
- 42 S. Car-lot shipments of fruits and vegetables from stations in the United States for the calendar years 1930 and 1931. 10¢.

Technical Bulletins:

- 79 T. Major transactions in 1926 December wheat future. 10¢.
- 96 T. Yields of barley in United States and Canada, 1922-1926. 15¢.
- 172 T. Taxation of farm property. 15¢.
- 199 T. Trading in corn futures. 20¢.
- *311 T. Adequacy and reliability of crop-yield estimates. 10¢.

Department Circulars:

- *150 DC. Statistical data compiled and published by Bureau of Crop Estimates, 1863-1920; Pt. 1, Publications of Bureau of Crop Estimates; Pt. 2, Subjects included in reports and records of Bureau of Crop Estimates. 10¢.
- 241 DC. Food animals and meat consumption in United States, 1922. 5¢.
- 373 DC. Revised estimates of crop acreages, New York, 1862-1919: Study of methods used in revising crop and livestock estimates of Department of Agriculture. 5¢.
- 377 DC. The farm real estate situation, 1926. 5¢.

Miscellaneous Circulars:

- *9 MC. Importation and exportation of tea. 5¢.
- 41 MC. Estimating the quantity of grain in bins, with chart reducing the necessary computations. 5¢.

Circulars:

- 15 C. The farm real estate situation, 1926-27. 10¢.
- *101 C. The farm real estate situation, 1928-29. 15¢.
- 150 C. The farm real estate situation, 1929-30. 10¢.
- 151 C. Hedging in grain futures; theory and practice. 25¢.
- 201 C. Future trading and the cash-grain markets. 15¢.
- 209 C. The farm real estate situation, 1930-31. 15¢.
- *261 C. The farm real estate situation, 1931-32. 5¢.
- *309 C. The farm real estate situation, 1932-33. 10¢.

Miscellaneous Publications:

- *17 MP. Crop report regulations. 1928. 5¢.
- *19 MP. Agricultural outlook for 1928. 10¢.
- 95 MP. World wheat outlook, 1930. 10¢.
- 102 MP. Agricultural outlook for the Southern States, 1930-31. 10¢.
- 104 MP. The world cotton situation with outlook for 1931-32 and long-time outlook for southern agriculture. 10¢.
- 105 MP. A graphic summary of American agriculture based largely on the census. 60¢.
- 108 MP. Agricultural outlook for 1931. 15¢.
- 112 MP. Farm outlook for 1931. 5¢.
- 124 MP. The outlook for the dairy industry and some essentials of a national dairy program. 15¢.
- 137 MP. The agricultural outlook for the Southern States, 1931-32. 10¢.
- 139 MP. Some facts about the cotton outlook for 1932. 5¢.
- *141 MP. A guide to grain-trade statistics. 10¢.
- 144 MP. Agricultural outlook for 1932. 10¢.
- *156 MP. The agricultural outlook for 1933. 10¢.
- *158 MP. Handbook of poultry and egg statistics. 10¢.
- *182 MP. The agricultural outlook for 1934. 10¢.

Publications preceded by an asterisk (*) are obtainable by purchase only,

Yearbook Separates:

- 1102 Y. Prices of farm products graphically presented. (1930.) 5¢.
 1113 Y. Starches imported for some uses, though the United States makes surplus cornstarch. 5¢.
 1145 Y. Canning industry's output grows under food and drug act. (1930.) 5¢.
 1147 Y. Crop and livestock production trends. (1931.) 10¢.
 1249 Y. Statistics of grains. (1932.) 10¢.
 1250 Y. Statistics of cotton, sugar, and tobacco. (1932.) 5¢.
 1251 Y. Statistics of fruits and vegetables. (1932.) 5¢.
 1252 Y. Statistics of miscellaneous crops. (1932.) 5¢.
 1253 Y. Statistics of cattle, hogs, sheep, horses, mules, and asses. (1932.) 10¢.
 1254 Y. Dairy and poultry statistics. (1932.) 5¢.
 1255 Y. Foreign trade of the United States in agricultural products. (1932.) 5¢.
 1256 Y. Miscellaneous agricultural statistics. (1932.) 5¢.
 1257 Y. Farm business and related statistics. (1932.) 5¢.
 1258 Y. Miscellaneous agricultural statistics dealing with temperature, precipitation, and frost. (1932.) 5¢.
 1346 Y. Statistics of grains. (1933.) 5¢.
 1347 Y. Statistics of cotton, sugar, and tobacco. (1933.) 5¢.
 1348 Y. Statistics of fruits and vegetables. (1933.) 5¢.
 1349 Y. Statistics of miscellaneous crops. (1933.) 5¢.
 1350 Y. Statistics of beef cattle, hogs, sheep, horses, mules, and asses. (1933.) 5¢.
 1351 Y. Dairy and poultry statistics. (1933.) 5¢.
 1352 Y. Foreign trade of the United States in agricultural products. (1933.) 5¢.
 1353 Y. Farm business and related statistics. (1933.) 5¢.
 1354 Y. Miscellaneous agricultural statistics. (1933.) 5¢.

Miscellaneous:

Handbook of dairy statistics. 15¢.

Bureau of Animal Industry Bulletins:¹

- 11 Statistics of the dairy, compiled from U.S. census of 1890, and other reliable sources, with explanatory notes. 5¢.

Bureau of Statistics Bulletins:¹

- *66 Russian wheat and wheat flour in European markets. 15¢.
 *68 Cereal production of Europe. 15¢.
 *69 European grain trade. 10¢.
 *81 Grain movement in the Great Lakes region. 10¢.
 *84 Russian cereal crops: Area and production by governments and provinces. 20¢.
 *94 Supply of farm labor. 10¢.
 *103 International trade in farm and forest products, 1901-1910. 5¢.

SUGAR BEETS

(See also Diseases; Insects)

Farmers' Bulletins:

- *1042 F. Saving man labor in sugar-beet fields. 5¢.
 1637 F. Sugar-beet culture in the humid area of the United States. 5¢.
 1645 F. Sugar-beet growing under irrigation in the Utah-Idaho area. 5¢.

Leaflets:

- 97 L. Cross-blocking sugar beets by machine. 5¢.

Department Bulletins:

- *238 D. Sugar beets: Preventable losses in culture. 10¢.
 *693 D. Farm practice in growing sugar beets for three districts in Utah and Idaho, 1914-15. 10¢.
 *726 D. Farm practice in growing sugar beets for three districts in Colorado, 1914-15. 10¢.
 *735 D. Farm practice in growing sugar beets in Billings region of Montana. 10¢.
 *760 D. Farm practice in growing sugar beets in three California districts. 10¢.
 *963 D. Cost of producing sugar beets in Utah and Idaho, 1918-19. 10¢.
 *995 D. Beet-sugar industry in the United States in 1920. 20¢.

Technical Bulletins:

- *360 T. Curly-top resistance in sugar beets and tests of the resistant variety U.S. No. 1. 10¢.

Circulars:

- *156 C. Transplanting sugar beets in Utah and Idaho. 5¢.
 *273 C. Effects of time of planting and of fertilizer mixtures on the curly-top resistant sugar-beet variety U.S. No. 1 in Idaho. 5¢.

¹ These publications belong to an early series, the studies having been made and the material prepared for issuance prior to 1914.

Publications preceded by an asterisk (*) are obtainable by purchase only.

SUGARS—SUGARCANES—SIRUPS

(See also Diseases; Insects)

Farmers' Bulletins:

- *1034 F. Growing sugarcane for sirup. 5¢.
- *1366 F. Production of maple sirup and sugar. 5¢.
- 1389 F. Sorgo-sirup manufacture. 5¢.
- 1619 F. Sorgo for sirup production: Culture, harvesting, and handling. 5¢.

Department Bulletins:

- 466 D. Maple sugar: Composition, methods of analysis, effect of environment. 5¢.
- 1158 D. Production of sirup from sweetpotatoes. 10¢.
- 1370 D. Sugarcane sirup manufacture. 10¢.

Circulars:

- *36 C. Sugarcane variety tests in Louisiana during crop year, 1926-27. 5¢.
- 88 C. Variety tests of sugarcanes in Louisiana during the crop year, 1927-28. 5¢.
- 97 C. Rate of deterioration of sugar content of some P.O.J. sugarcane varieties in Louisiana. 5¢.
- *242 C. Variety tests of sugarcanes in Louisiana during the crop year 1930-31. 5¢.
- *284 C. Sugarcane for sirup production. 10¢.
- *298 C. Variety tests of sugarcanes in Louisiana during the crop year 1931-32. 5¢.
- *304 C. Windrowing qualities of Co. 281 and other varieties of sugarcane under Louisiana conditions. 5¢.

Yearbook Separates:

- *893 Y. Sugar. 20¢.

TOBACCO

(See also Diseases; Insects; Marketing; Standards)

Farmers' Bulletins:

- 523 F. Tobacco curing. 5¢.
- 571 F. Tobacco culture. 5¢.
- 1580 F. Cigar-tobacco production in Pennsylvania. 5¢.
- 1629 F. Steam sterilization of soil for tobacco and other crops. 5¢.

Technical Bulletins:

- *12 T. Fertilizer tests with flue-cured tobacco. 15¢.
- *175 T. Breeding tobacco for resistance to Thielavia root rot. 10¢.
- *340 T. Distinctive effects of the deficiency of certain essential elements on the growth of tobacco plants in solution cultures. 5¢.

Circulars:

- *249 C. American tobacco types, uses and markets. 20¢.

TOMATOES

(See also Diseases; Insects; Marketing)

Farmers' Bulletins:

- 1233 F. Tomatoes for canning and manufacturing. 5¢.
- 1338 F. Tomatoes as a truck crop. 5¢.
- *1431 F. Greenhouse tomatoes. 5¢.

Department Bulletins:

- *581 D. Microscopical studies on tomato products. 5¢.

Technical Bulletins:

- 268 T. Effects of various temperatures on storage and ripening of tomatoes. 15¢.

Circulars:

- 218 C. The Break-O-Day tomato. 5¢.
- *243 C. The Pritchard tomato. 5¢.
- *245 C. Spoilage of tomatoes in transit, as shown by inspection certificates, 1922 to 1930. 5¢.

VIRGIN ISLANDS

Technical Bulletins:

- 315 T. Soil survey (reconnaissance) of St. Croix Island, Virgin Islands. 20¢.

Virgin Islands Agricultural Experiment Station Bulletins:

- *3 VIB. Insect pests of cotton in St. Croix and means of combating them. 5¢.
- *4 VIB. Truck crop insect pests in the Virgin Islands and methods of combating them. 10¢.
- *5 VIB. Production of sweetpotato seedlings at the Virgin Islands experiment station. 10¢.
- *6 VIB. Gardening in the Virgin Islands. 5¢.

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WEATHER

Farmers' Bulletins:

- 1512 Protection of buildings and farm property from lightning. 5¢.
 1588 F. Frost and the prevention of frost damage. 5¢.

Miscellaneous Circulars:

- 81 MC. Relations between crop yields and precipitation in Great Plains area. 30¢.
 Same, supplement No. 1. Crop rotations and tillage methods. 50¢.

Circulars:

- *285 C. Portable refrigeration chambers for studying cold resistance of plants in the field. 5¢.

Miscellaneous Publications:

- *71 MP. Weather forecasting from synoptic charts. 20¢.
 114 MP. The Weather Bureau. 5¢.
 *118 MP. The influence of weather on crops: 1900-1930, a selected and annotated bibliography. 40¢.

Yearbook Separates:

- *918 Y. Weather and agriculture. 20¢.

Miscellaneous:

- *Weather Bureau Educational Series: (1) Barometer table, (2) Explanation of weather map and sample weather map, (3) Cloud chart, (4) The Weather Bureau, pamphlet descriptive of work of Bureau. 10¢ per set.
- *Daily weather map (Form C, 19 by 24 inches), issued at Washington, D.C., shows the weather conditions for the United States and the forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ per month, \$3 per year; daily, including Sundays and holidays, 30¢ per month, \$3.60 per year; Sunday and holiday maps only (no subscription for less than 6 months), 30¢ for six months, 60¢ per year; foreign subscriptions \$9.10 per year.
- *Daily weather maps (Map DD, 11 by 16 inches, and Map CM, 8 by 12 inches, printed, and Map E, 11 by 16 inches, mimeographed) showing the weather conditions and forecasts, issued daily, except Sundays and holidays, at numerous stations throughout the United States; 20¢ per month, \$2.40 per year.
- *Copies of the Daily weather maps (DD, E, and CM) can not be furnished in quantities unless the order is placed in advance of issue with the official in charge of the station or with the Superintendent of Documents, Washington, D.C., and are sold (not less than 25) at 80¢ per 100 copies.
- *Climatic charts for United States; 12 in series, 10 by 16 inches; (1) normal annual precipitation; (2) average number of days with precipitation; (3) normal annual temperature; (4) normal January temperature; (5) normal July temperature; (6) highest temperature ever observed; (7) lowest temperature ever observed; (8) mean relative humidity (per cent) January, 8 a.m., 75th meridian time; (9) mean relative humidity (per cent) January, 8 p.m., 75th meridian time; (10) mean relative humidity (per cent), July, 8 a.m., 75th meridian time; (11) mean relative humidity (per cent), July, 8 p.m., 75th meridian time; (12) average minimum temperature (Fahrenheit), January. Single charts 5¢ each, 50¢ per set.
- *Tables for computing horizontal distance of pilot balloons. 25¢ (bound copies).
- *Blank Weather Maps for use in meteorological studies will be furnished on receipt of price, viz, Washington base maps (Form C, 19 by 24 inches), \$1 per 100; station base maps (Maps DD, 11 by 16 inches), 25¢ per 100. Blank maps being of the nature of supplies, cannot be furnished free. Draft or money order must be made payable to Disbursing Clerk, U.S. Department of Agriculture, Washington, D.C., and forwarded with order to U.S. Weather Bureau, Washington, D.C. When more than 50 blank Washington base maps (Form C, 19 by 24 inches) or more than 150 blank stations base maps (Maps DD, 11 by 16 inches), are ordered at one time shipment has to be made by express "collect" for express charges, and must be so authorized by purchaser. Full shipping instructions must accompany the order.
- *Annual report of the Chief of the Weather Bureau, containing the summary of meteorological data from Weather Bureau stations, bound in buckram; 1923-24 and 1924-25, \$1; 1926-27, 1927-28, \$1.25; 1928-29, \$1; 1929-30, 50¢; 1930-31, \$1.25; 1931-32 (paper cover), 25¢.
- *Aerological code, 1930 edition. 65¢.
- *International radio weather code for use of United States selected ships, 1930. 75¢.
- *River stages at river-gage stations on principal rivers of the United States, 1905-06. Volume 8. 35¢.
- *Same for 1913-14. Volume 12. 75¢.
- *Same for 1915. Volume 13. 25¢.

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Miscellaneous—Continued.

- *Same for 1916. Volume 14. 50¢.
- *Same for 1919. Volume 17. 50¢.
- *Same for 1920. Volume 18. 25¢.
- *Same for 1921. Volume 19. 40¢.
- *Same for 1922. Volume 20. 40¢.
- *Same for 1923. Volume 21. 35¢.
- *Same for 1924. Volume 22. 35¢.
- *Same for 1925. Volume 23. 50¢.
- *Same for 1926. Volume 24. 50¢.
- *Same for 1927. Volume 25. 35¢.
- *Same for 1928. Volume 26. 60¢.
- *Same for 1929. Volume 27. 50¢.
- *Same for 1930. Volume 28. 50¢.
- *Same for 1931. Volume 29. 50¢.
- *Cloud forms; 12 half-tone plates on sheet 20 by 26 inches. 5¢.
- *Cloud forms with 32 half-tone plates, descriptive pamphlet, 22 pages. 20¢.
- *Psychrometric tables for obtaining the vapor pressure, relative humidity, and temperature of the dew point. W.B. 235. 10¢.
- *Same abridged separates, pressure 23, 25, 27, 29, 30 inches. 5¢.
- *Relative humidity, centigrade temperatures (W.B. No. 1071). 5¢.
- *The daily weather map with explanation. Descriptive text with 4 charts. 5¢.
- *Wind-barometer table, 25 for 10¢; 100 for 35¢.
- *Explanation of the weather map, 4 page leaflet; 30 for 25¢; 100 for 75¢.
- *Relation between precipitation over watershed of Ohio River above and streamflow at Cincinnati. Weather Bul. 40. 15¢.
- *Forecasting frost in North Pacific States. Weather Bul. 41. 10¢.
- *Weather forecasting, with introductory notes on atmospheric. Weather Bul. 42. 5¢.
- *Report on the kite observations of 1898. Weather Bul. F. 50¢.
- *Atmospheric radiation: A research conducted at the Allegheny observatory and at Providence, R.I. Weather Bul. G. 35¢.
- *Report on the temperatures and vapor tensions to a homogeneous system of 24 hourly observations for the 33-year intervals 1873 to 1905. Weather Bul. S. \$1.15.
- *Frost and temperature conditions in cranberry marshes of Wisconsin. Weather Bul. T. 20¢.
- *The Ohio and Mississippi floods of 1912. Weather Bul. Y. 40¢.
- *Floods of 1913 in rivers of Ohio and lower Mississippi valleys. Weather Bul. Z. 40¢.
- Monthly Weather Review, containing contributions from the research staff of the Weather Bureau and special contributions of a general character in any branch of meteorology and climatology, also climatological data for Weather Bureau stations; 15¢ a copy, \$1.50 a year, domestic; \$2.25 a year, foreign.
- Weekly Weather and Crop Bulletin, giving a synopsis of weather conditions and their effect on crops and farming operations in the United States; also showing snow and ice conditions during the winter season; 50¢ a year; \$1.30 a year, foreign. No bills or notice of expiration are rendered subscribers; expiration date is indicated on wrapper or envelope.
- Weekly Cotton Region Bulletin, issued at New Orleans, La., April 1 to October 31, inclusive; 30¢ a season; 75¢ a season, foreign.
- Weekly Corn and Wheat Region Bulletin, issued at Chicago, Ill., April 1 to September 30, inclusive; 30¢ a season; 70¢ a season, foreign.
- Climatological Data, containing weather statistics from 42 separate sections, each section, as a rule, corresponding to a State, and issued monthly, with an annual summary. One section, 5¢ a month; 50¢ a year. Forty-two sections, bound in paper covers, 35¢ a month; \$4 a year, including the Annual Summary; \$6.00 a year, foreign. Annual Summary for the 42 sections, 50¢.
- Climatological Data for Alaska, Hawaii, and West Indies; issued monthly, with annual summary. One section, 5¢ a month; 50¢ a year.
- *Summaries of climatological data for the United States by sections, including Alaska and Hawaii, unbound, 110 separate parts (some sections now exhausted), each based on data from the beginning of observations to the end of 1920; Weather Bul. W. 10¢ each part; \$5 for set.
- *Climatic summary of the United States, including Alaska, Hawaii, and the West Indies, unbound, 111 parts (many revised), each based on data from the beginning of observations to the end of 1930. Weather Bul. W. 10¢ per part, entire set, unbound, made up from both editions. \$5.
- *Vessel weather code for observers, 1931 edition. \$1.00
- *Weather code, 1931 edition. \$1.50.

Circular Series:

- *Instructions for obtaining and tabulating records from recording instruments. Weather Cir. A. 10¢.
- *Instructions for cooperative observers. Weather Cir. B and C. 10¢.

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Circular Series—Continued.

- *Instructions for installation and maintenance of wind measuring and recording apparatus. Weather Cir. D. 15¢.
- *Instructions for wiring meteorological instruments. Appendix 2, Weather Cir. D. 15¢.
- *Measurements of precipitation. Weather Cir. E. 5¢.
- *Barometers and measurement of atmospheric pressure. Weather Cir. F. 15¢.
- *Care and management of electrical sunshine recorders. Weather Cir. G. 5¢.
- *Instructions for erecting and using Weather Bureau nephoscope, 1919 pattern. Weather Cir. I. 10¢.
- *Instructions for installation and maintenance of Marvin water stage registers with specifications. Weather Cir. J. 10¢.
- *Instructions for installation and operation of class A evaporation stations. Weather Cir. L. 10¢.
- *Instructions to marine meteorological observers. Weather Cir. M. 15¢.
- *Instructions for airways observers. Weather Cir. N. 35¢.
- *Instructions for making pilot balloon observations. 1928. 66 pages. illus. Weather Bureau, Aerological Division. Circular O. 20¢.
- *Pyrheliometers and pyrheliometric measurements. Weather Cir. Q. 5¢.

Monthly Weather Review Supplements:

- *6 Relative humidities and vapor pressures over the United States, including a discussion of data from recording hair hygrometers. 25¢.
- *7 Free air data at Drexel, Nebr., aerological station, April, May, and June 1916. 25¢.
- *8 Free air data at Drexel, Nebr., aerological station, July to December 1916, inc. 25¢.
- *9 Periodical events and natural law as guides to agricultural research and practice. 25¢.
- *11 Free air data at Drexel, Nebr., aerological station, July to December 1917, inc. 25¢.
- *12 Free air data at Drexel, Nebr., and Allendale, N. Dak., aerological stations, January, February, and March 1918, inc. 25¢.
- *15 Free air data at Broken Arrow, Okla.; Drexel, Nebr.; Allendale, N. Dak.; Groesbeck, Tex.; Leesburg, Ga.; and Royal Center, Ind., aerological stations, October to December 1918, inc. 25¢.
- *16 Predicting minimum temperatures from hygrometric data. 25¢.
- *17 Streamflow experiment at Wagon Wheel Gap, Colo. 25¢.
- *18 Bibliography of the climate of South America. 15¢.
- *19 Thermal belts and fruit growing in North Carolina. 50¢.
- *20 An aerological survey of the United States. 25¢.
- *21 The preparation and significance of free-air pressure maps for the central and eastern United States. 25¢.
- *22 The spring floods of 1922. 25¢.
- *23 The temperature of Mexico. 25¢.
- *25 Normals of daily temperature for the United States. 20¢.
- *26 An aerological survey of the United States, Part II. 20¢.
- *27 Montezuma pyrheliometry. 20¢.
- *28 Climatological data for the Tropical Islands of the Pacific Ocean (Oceania). 10¢.
- *29 The floods of 1927 in the Mississippi Basin. 20¢.
- *30 Forest and stream-flow experiment at Wagon Wheel Gap, Colo. 25¢.
- *31 Climatological data for northern and western tropical South America. 10¢.
- *32 Climatological data for southern South America. 10¢.
- *33 Climate of Mexico. 15¢.
- *34 The daily, monthly, and annual normals of precipitation in the United States. 35¢.

WEEDS

(See also Plants, Poisonous)

Farmers' Bulletins:

- 660 F. Weeds, how to control them. 5¢.
- 687 F. Eradication of ferns from pasture lands in eastern United States. 5¢.
- 1054 F. The loco-weed disease. 5¢.
- 1307 F. Quack grass. 5¢.
- 1537 F. Johnson grass as a weed. 5¢.
- 1544 F. Common barberry and black stem rust. 5¢.

Leaflets:

- 43 L. Wild garlic and its control. 5¢.
- 95 L. How to control ragweed, the principal cause of autumn hay fever. 5¢.

Publications preceded by an asterisk (*) are obtainable by purchase only.

Department Bulletins:

- *1316 D. Some effects of sodium arsenite when used to kill the common barberry. 10¢.
 *1451 D. Methods of eradicating the common barberry. 20¢.

Technical Bulletins:

- *156 T. Investigations in weed control by zinc sulphate and other chemicals at the Savenac Forest Nursery. 15¢.
 300 T. Susceptibility and resistance of *Berberis* [Barberry] and related genera to *Puccinia graminis* [stemrust]. 10¢.

Department Circulars:

- *108 DC. Chickory, control and eradication. 5¢.
 *130 DC. Hawkweed, or paintbrushes. 5¢.
 *165 DC. Lawn pennywort, new weed. 5¢.
 188 DC. Progress of barberry eradication. 10¢.
 *268 DC. Kill the common barberry with chemicals. 5¢.
 *269 DC. Barberry eradication prevents black rust in western Europe. 5¢.
 *332 DC. Chemical eradication of common barberry. 5¢.
 356 DC. Common barberry and how to kill it. 5¢.

Circulars:

- 133 C. Methods of eradicating buckthorn (*Rhamnus*) susceptible to crown rust (*Puccinia coronata*) of oats. 10¢.
 229 C. Weedy abandoned lands and the weed hosts of the beet leaf hopper. 5¢.

Miscellaneous Publications:

- *7 MP. Bread or barberries. 5¢.
 131 MP. A dangerous neighbor (common barberry) for wheat, oats, barley, and rye. 5¢.

WHEAT

(See also Diseases; Insects; Grades; Marketing; Experiment Station Work)

Farmers' Bulletins:

- 596 F. Culture of winter wheat in eastern United States. 5¢.
 885 F. Wheat growing in Southeastern States. 5¢.
 1168 F. Varieties of winter wheat adapted to eastern United States. 5¢.
 *1304 F. Durum wheats. 5¢.
 1305 F. Soft red winter wheats. 5¢.
 1340 F. Polish and Poulard wheats. 5¢.
 1585 F. Varieties of hard red winter wheat. 5¢.
 1621 F. Varieties of hard red spring wheat. 5¢.
 1707 F. Varieties of common white wheat. 5¢.
 1708 F. Varieties of club wheat. 5¢.

Leaflets:

- 33 L. The combination cleaning and treating of seed wheat. 5¢.

Department Bulletins:

- *357 D. Alaska and Stoner, or "Miracle," wheats. 5¢.
 *400 D. Experiments with Marquis wheat. 10¢.
 *450 D. Improvement of Ghirka spring wheat in yield and quality. 5¢.
 *478 D. Origin, characteristics, and quality of Humpback wheat. 5¢.
 *522 D. Characteristics and quality of Montana-grown wheat. 10¢.
 *557 D. Comparison of several classes of American wheats and consideration of some factors influencing quality. 5¢.
 *594 D. Geography of wheat prices, summary of conditions affecting farm prices of wheat. 20¢.
 *877 D. Australian wheat varieties in the Pacific coast area. 10¢.
 *878 D. Varietal experiments with spring wheat on the northern Great Plains. 15¢.
 1004 D. Use of water by spring wheat on Great Plains. 10¢.
 *1046 D. Rust resistance in winter-wheat varieties. 20¢.
 *1094 D. Method of winter-wheat production at Fort Hays branch station. 5¢.
 1139 D. Storage of water in soils and its utilization by spring wheat. 5¢.
 *1173 D. Experiments in wheat production on the dry lands of western United States. 10¢.
 *1192 D. Improvement of Kubanka durum wheat by pure-line selection. 5¢.
 *1276 D. Varietal experiments with hard red winter wheats in dry areas of western United States. 10¢.
 *1299 D. Relative resistance of wheat to bunt in Pacific Coast States. 5¢.
 1403 D. Segregation and correlated inheritance in Marquis and Hard Federation crosses, with factors for yield and quality of spring wheat in Montana. 15¢.

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Department Bulletins—Continued.

- 1446 D. Cost of producing winter wheat and incomes from wheat farming in Sherman County, Oreg. 10¢.
 1498 D. Distribution of the classes and varieties of wheat in the United States. 20¢.

Technical Bulletins:

- 6 T. Heat-damaged wheat. 10¢.
 38 T. Rate and date of seeding and seed bed preparation for winter wheat at Arlington Experiment Farm. 5¢.
 39 T. Inheritance of awnedness, yield, and quality in crosses between Bobs, Hard Federation, and Propo wheats, at Davis, Calif. 10¢.
 136 T. Breeding hard red winter wheats for winter hardiness and high yield. 5¢.
 329 T. Experiments in wheat production on the dry lands of Oregon, Washington, and Utah. 10¢.
 *335 T. Inheritance of stem-rust reaction and correlation of characters in Pentad, Nodak, and Akrona Durum-wheat crosses. 5¢.

Department Circulars:

- *280 DC. Kota wheat. 5¢.
 *305 DC. Electrochemical treatment of seed wheat. 5¢.
 365 DC. Relative susceptibility of spring-wheat varieties to stem rust. 5¢.
 *378 DC. Comparative hardiness of winter-wheat varieties. 5¢.

Miscellaneous Circulars:

- *95 MC. Unclean seed wheat causes loss of millions; to control losses clean all seed wheat. 5¢.

Circulars:

- 81 C. Removing smut from Pacific Northwest wheat by washing. 5¢.
 141 C. Hardiness and yield of winter-wheat varieties. 5¢.

Miscellaneous Publications:

- 96 MP. Feeding wheat to livestock. 5¢.
 131 MP. A dangerous neighbor (common barberry) for wheat, oats, barley, and rye. 5¢.

Yearbook Separates:

- 649 Y. Hard wheats winning their way 10¢.
 752 Y. World's supply of wheat. 5¢.
 *846 Y. Cost of a bushel of wheat. 5¢.
 *873 Y. Wheat production and marketing. 10¢.

Bureau of Plant Industry Bulletins:¹

- *70 The commercial status of durum wheat. 10¢.
 *100 Miscellaneous papers: Part III. Garlicky wheat. 5¢.

YEARBOOKS

*1895.....	\$0.55	*1916.....	\$1.00
*1897.....	.60	*1917.....	1.00
*1899.....	.75	*1918.....	.85
*1900.....	.75	*1919.....	1.00
*1901.....	.80	*1920.....	1.25
*1902.....	.85	*1921.....	1.25
*1903.....	.75	*1922.....	1.25
*1906.....	1.00	*1923.....	1.25
*1907.....	1.00	*1924.....	1.50
*1908.....	1.25	*1925.....	1.50
*1909.....	1.00	*1926.....	1.50
*1910.....	1.00	*1927.....	1.50
*1911.....	1.00	*1928.....	1.50
*1912.....	1.00	*1930.....	1.50
*1913.....	.75	*1931.....	1.50
*1914.....	.75	*1932.....	1.00
*1915.....	.75	*1933.....	1.00

¹ These publications belong to an early series, the studies having been made and the material prepared for issuance prior to 1914.

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